

**DESIGN PARAMETERS FOR MANUAL J****Outdoor Design Conditions per Table 1A ACCA Manual J Eighth Edition**

1. Elevation: 5344 feet
2. Latitude: 40° North
3. Winter heating 99% Dry Bulb: 1° F
4. Summer Cooling 1% Dry Bulb: 91° F
5. Coincident Wet Bulb: 59°F
6. Design Grains Difference at 50% RH: -41
7. Daily Range: High (H)
8. Relative Humidity: 50% winter and summer
9. Indoor Design Temperature for Heating: 70° F
10. Indoor Design Temperature for Cooling: 75° F
11. Heating Temperature Difference (HTD): 69° F
12. Cooling Temperature Difference (CTD): 16° F
13. Cooling Load Temperature Difference (CLTD): 21.0° F
14. SHGC: SHGC taken directly from sticker on glass.
  - A. While not required per Table 402.1.1 of the IECC the SHGC is still required data for Manual J. If not known, either use default per 2009 IECC Table 303.1(3) or equation  $SHGC = .87 \times SC$  (shading coefficient) under A4-5 of Manual J.
15. Altitude Correction Factor (ACF): 0.84
16. Moisture Content: 68.2
17. Air Density: 0.063
18. Wind Velocity Value: 15 mph for heating
19. Wind Velocity Value: 7.5 mph for cooling

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