Residential Load Calculation
Outdoor Design Conditions

Eighth Edition Version Two

Approved American National Standard

ANSI

ACCA
Air Conditioning Contractors of America
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INTRODUCTION

When designing an HVACR system, it is of paramount importance to use the correct outdoor climate data (outdoor design conditions) for the locality in which the building receiving the new system is located. This data is used when calculating the building component heating load and component cooling load, which in turn are used to determine the required cubic feet per minute (CFM) for each room, design the appropriate duct work, and select the optimal equipment for the application. As is evident, not using the relevant outdoor design conditions can cause errors that will propagate throughout the system design process. The results are an uncomfortable indoor environment, energy inefficiency, and avoidable expenses.

This guide is a stand-alone version of the Outdoor Design Conditions tables that originally appear in the ACCA Manual J Residential Load Calculation 8th Edition v.2.0. It also contains the relevant references and notes that can be found throughout the Manual J. It is ACCA’s intention that the Outdoor Design Conditions Guide will aide Raters and Code Officials around the country in performing system design evaluations. For ease of use, the table of contents lists the page on which you can find a specific state.
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1.0 REFERENCES

The following is a list of references to the Outdoor Design Conditions tables found throughout the *ACCA Manual J 8th Edition v.2.0* that Raters and Code Officials may find helpful:

Ref 1. Abridged Edition Check List (precedes p. 1)
The indoor design condition shall be: Heating 70°F; Cooling 75 db °F and 45%, 50% or 55% RH; unless superseded by code. The outdoor design conditions shall be equal to the values in Table 1A (exactly), unless superseded by code.

Ref 2. Section 1-2: Design Loads and Other Load Conditions (p. 1)
Dwellings are subject to design load conditions, part-load conditions and extreme load conditions. Design conditions (based on Manual J defaults for indoor temperature and humidity and Table 1A weather data) are used for equipment sizing calculations. These conditions translate to equipment sizes that efficiently deliver adequate comfort (indoor temperature and humidity excursions conform to industry standard – see ACCA Manual RS) for any load condition.

Manual J Do’s (Mandatory Requirements):
- Use the outdoor design conditions recommended by Table 1A of Manual J (unless superseded by code).

Manual J Don’ts (Mandatory Requirements):
- Do not add a ‘safety factor’ to the Table 1A design conditions.

Ref 4. Figure 3-1: Adjustable Defaults for Heating and Cooling Load Estimates (p. 13)
Issue: Outdoor Design Conditions; Default: Use Table 1 values (exactly as published)

Ref 5. Section 6-3: Worksheet A (Design Conditions) (p. 42)
Worksheet A provides a record of the indoor and outdoor design conditions used for the job. The following information shall be transcribed from Table 1A
- Location and add job name
- Indoor design temperature for heating and cooling
- Indoor humidity (RH) for heating and cooling
- Elevation and latitude
- Outdoor design temperature for heating (99% value)
- Outdoor design temperature for cooling (1% value)
- Grains difference value for cooling (for specified indoor RH value)
- Daily range classification

Ref 6. The entirety of Section 18: Design Conditions (p. 143 – 148)
2.0 NOTES

1. Note the following acronyms and their meaning:
   - AAF = Army Air Field
   - AFB = Air Force Base
   - AFS = Air Force Station
   - AP = Air Port
   - ANGB = Air National Guard Base
   - CLG = College
   - CO = City Office
   - CSL = Castle
   - FS = Fire Station
   - HQ = Head Quarters
   - IAP = International Air Port
   - MCAS = Marine Corps Air Station
   - MCB = Marine Corps Base
   - MNT = Mountain
   - NAS = Naval Air Station
   - ND = Navy Depot
   - NM = National Monument
   - OBSY = Observatory
   - PH = Power House
   - PK = Park
   - RCH = Ranch
   - RES = Reservoir
   - RS = Ranger Station
   - STN = Station
   - TP = Trading Post
   - UNV = University
   - WSO = Weather Station Office
   - 15 W = 15 miles Wes

2. Design Grains columns refer to the Grains of moisture difference between the outdoor air and the indoor air. Negative values occur when the outdoor air is dryer than the indoor air.
   - Design Grains 55% RH = Indoor Air at 75°F drybulb and 55% Relative humidity
   - Design Grains 50% RH = Indoor Air at 75°F drybulb and 50% Relative humidity
   - Design Grains 45% RH = Indoor Air at 75°F drybulb and 45% Relative humidity

3. Average daily temperature swing for L, M and H daily range categories:
   - Low = swing less than 16°F
   - Medium = swing ranges from 16°F to 25°F
   - High = swing more than 25°F

4. The 1997 ASHRAE 1% and 99% temperature data is used when provided for a particular location. The older 2 ¼% and 97 ½% temperature data is used for locations that were not listed in the ASHRAE weather data.

5. The 99% and 1% temperatures are annual percentile values and are essentially equivalent to the 97 ½% and 2 ½% seasonal values that were used in the previous editions of Manual J.

6. Refer to Table 1B for micro-climate data for Arizona, California, Hawaii, and Nevada. (Table 1B supersedes Table 1A).

3.0 OUTDOOR DESIGN TABLES

The following are Table 1A: Outdoor Design Conditions and Table 1B: Micro Climate Data for Arizona, California, Hawaii and Nevada, which can also be found in ACCA Manual J 8th Edition v.2.0
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