

# ASHRAE Standard 169-2013 Climate Zone Thermal Definitions

TABLE A-3 Thermal Climate Zone Definitions

Thermal Zone	Name	I-P Units	SI Units
0	Extremely hot	$10,800 < \text{CDD}_{50^{\circ}\text{F}}$	$6000 < \text{CDD}_{10^{\circ}\text{C}}$
1	Very hot	$9000 < \text{CDD}_{50^{\circ}\text{F}} \leq 10,800$	$5000 < \text{CDD}_{10^{\circ}\text{C}} \leq 6000$
2	Hot	$6300 < \text{CDD}_{50^{\circ}\text{F}} \leq 9000$	$3500 < \text{CDD}_{10^{\circ}\text{C}} \leq 5000$
3	Warm	$\text{CDD}_{50^{\circ}\text{F}} \leq 6300$ and $\text{HDD}_{65^{\circ}\text{F}} \leq 3600$	$\text{CDD}_{10^{\circ}\text{C}} < 3500$ and $\text{HDD}_{18^{\circ}\text{C}} \leq 2000$
4	Mixed	$\text{CDD}_{50^{\circ}\text{F}} \leq 6300$ and $3600 < \text{HDD}_{65^{\circ}\text{F}} \leq 5400$	$\text{CDD}_{10^{\circ}\text{C}} < 3500$ and $2000 < \text{HDD}_{18^{\circ}\text{C}} \leq 3000$
5	Cool	$\text{CDD}_{50^{\circ}\text{F}} \leq 6300$ and $5400 < \text{HDD}_{65^{\circ}\text{F}} \leq 7200$	$\text{CDD}_{10^{\circ}\text{C}} \leq 3500$ and $3000 < \text{HDD}_{18^{\circ}\text{C}} \leq 4000$
6	Cold	$7200 < \text{HDD}_{65^{\circ}\text{F}} \leq 9000$	$4000 < \text{HDD}_{18^{\circ}\text{C}} \leq 5000$
7	Very cold	$9000 < \text{HDD}_{65^{\circ}\text{F}} \leq 12600$	$5000 < \text{HDD}_{18^{\circ}\text{C}} \leq 7000$
8	Subarctic/arctic	$12600 < \text{HDD}_{65^{\circ}\text{F}}$	$7000 < \text{HDD}_{18^{\circ}\text{C}}$

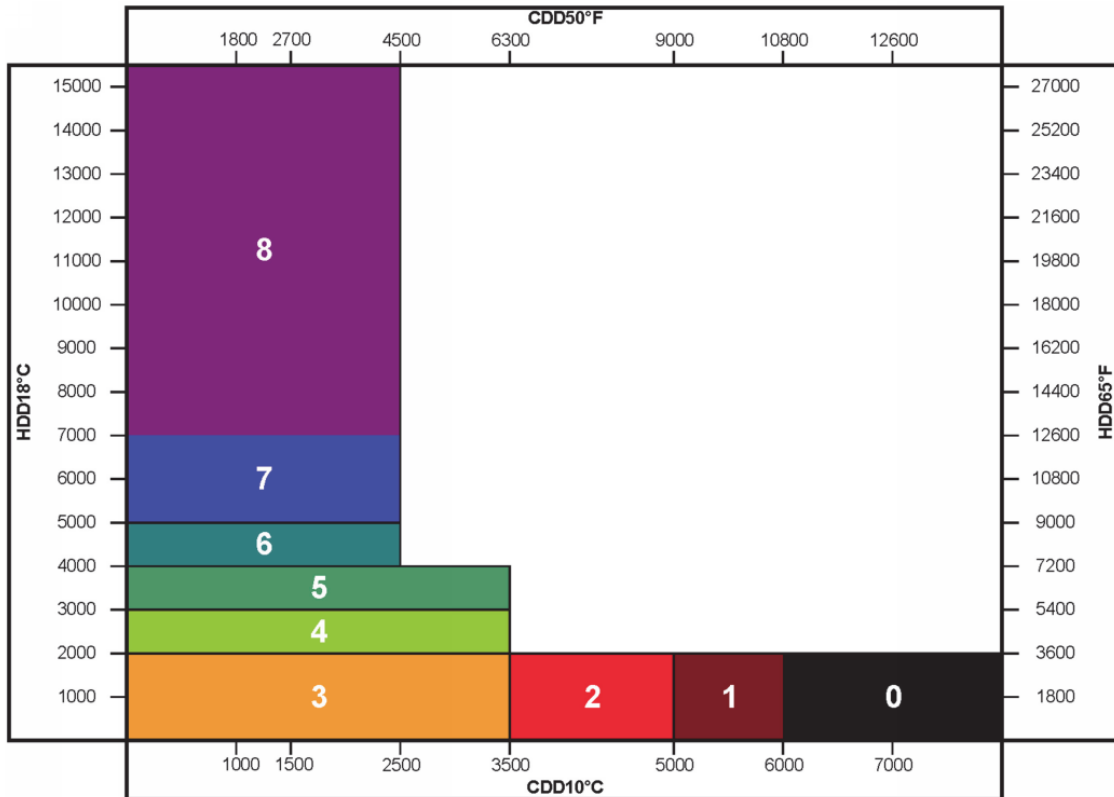


FIGURE A-1 Thermal climate zones as a function of heating and cooling degree-days.