Inputs

Select method: [PMV method ▾]

Operative temperature	70	°F
Air speed	19.7	fpm
Relative humidity	50	%
Metabolic rate	1.78	met
Clothing level	0.61	clo

[Relative humidity ▾]
[Reclining: 0.8 ▾]
[Trousers, long-sleeve shirt: 0.61 clo ▾]

[Create custom ensemble]

[Dynamic predictive clothing]

[Solar gain on occupants]

[Reset] [Set pressure] [SI/IP] [? Help]

[Local discomfort] [Globe temp]
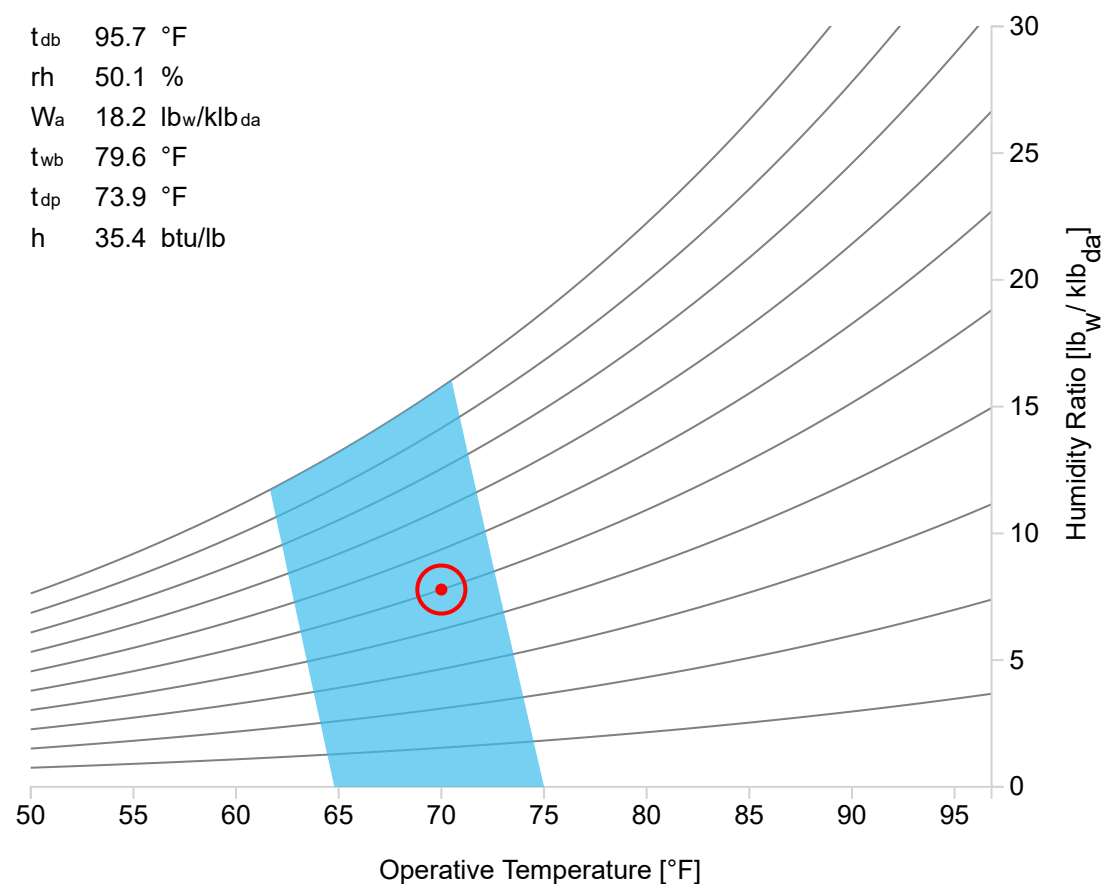
✔ Complies with ASHRAE Standard 55-2017

PMV = 0.23   PPD = 6 %

Sensation = Neutral   SET = 79.4 °F

[Psychrometric (operative temperature) ▾]

t_{db} 95.7 °F
rh   50.1 %
W_a 18.2 lb$_w$/klb$_{da}$
t_{wb} 79.6 °F
t_{dp} 73.9 °F
h   35.4 btu/lb

Operative Temperature [°F]

Humidity Ratio [lb$_w$ / klb$_{da}$]

NOTE: In this psychrometric chart the abscissa is the operative temperature and for each point dry-bulb temperature equals mean radiant temperature (DBT = MRT). The comfort zone represents the combination of conditions with the same DBT and MRT for which the PMV is between -0.5 and +0.5, according to the standard.
Limits of Applicability: This standard is only applicable to healthy men and women. This standard does not apply to occupant: a) whose clothing insulation exceed 1.5 clo; b) whose clothing is highly impermeable; or c) who are sleeping, reclining in contact with bedding, or able to adjust blankets or bedding.