

Table WRKSTN-E2: Influences on Thermal Comfort Zone¹

Factor	Level	Ambient Dry Bulb Temperature*			
		Lower Limit		Upper Limit	
		°C	(°F)	°C	(°F)
Relative Humidity (%)	20	20	(68)	26	(79)
	50	19	(67)	25.5	(78)
	80	18.5	(66)	24	(76)
Air Velocity, m/sec (ft/min)	0.1 (20)	18	(65)	24	(76)
	0.25 (50)	19	(67)	25.5	(78)
	0.36 (70)	21	(70)	27	(80)
	0.51 (100)	22	(72)	28	(82)
	0.71 (140)	23	(74)	29	(84)
Work Load, 8-Hour Average, multiples of resting values	x 2	19	(67)	25.5	(78)
	x 3.5	17	(64)	23	(74)
	x 5	=15.5	(=60)†	20	(68)
Clothing Insulation (clo)	0.25	27	(80)	28	(83)
	1.25	19	(67)	22	(72)
	2.50	=11	(=52)	=16	(=62)
Radiant Heat, °C (°F), amount that globe temperature exceeds dry-bulb temperature	0	19	(67)	25.5	(78)
	1.1 (2)	17	(64)	24	(76)
	2.8 (5)	16	(62)	23	(74)
	5.6 (10)	13	(56)	20	(68)

* Unless otherwise noted, the following values have been used to calculate the thermal comfort zone limits: air velocity, 0.25 m/sec (50 ft/min); work load, sedentary, light assembly, up to two times resting metabolism; clothing insulation, 0.6 clo in heat, 1.25 clo in cold; no radiant heat load; humidity, 50 percent.



