



Basic Thermal Comfort Model Parameters

Environmental Conditions

Air Temperature 75.0 °F
 MRT ☒ Link with Air 75.0 °F
 Air Velocity 19.7 fpm
 Relative Humidity 50 %
☐ Summer ☐ Winter

Activity

ASHRAE Standard 55

Metabolic Rate 1.0 met

Clothing

ASHRAE Standard 55 Summer

Clothing level 0.50 clo

Results

ET* 75.0 °F
 SET* 73.2 °F
 TSSENS -0.2
 DISC -0.2 Comfortable
 PMV -0.81 Below ISO
 PPD 19 %
 PD 11 %
 PS 54 %
 TS -0.3
 Tneutral 79.3 (Humphreys)
 Tneutral 76.9 (Auliciems)

CLO Calculator

Name Women Clo 0.50 Add to Library Clear Cancel OK

Underwear

☐ Men's briefs 0.04
☒ Panties 0.03
☒ Bra 0.01
☐ T-shirt 0.08
☐ Full slip 0.16
☐ Half slip 0.14
☐ Long underwear top 0.20
☐ Long underwear bottoms 0.15

Footwear

☒ Shoes 0.02
☐ Ankle socks 0.02
☐ Calf length socks 0.03
☐ Panty hose 0.02
☐ Boots 0.10

Shirts and Blouses

☐ Sleeveless, scoop-neck 0.12
☐ Short-sleeve, dress shirt 0.19
☒ Long-sleeve, dress shirt 0.25

Shirts and Blouses

☐ Long-sleeve, flannel shirt 0.34
☐ Short-sleeve, knit shirt 0.17
☐ Long-sleeve, sweat shirt 0.34

Trousers and Coveralls

☐ Short shorts 0.08
☐ Walking shorts 0.08
☐ Thin trousers 0.15
☐ Thick trousers 0.24
☐ Sweatpants 0.28
☐ Overalls 0.30

Dresses and Skirts

☒ Thin skirt 0.14
☐ Thick skirt 0.23
☐ Long-sleeve shirtdress 0.33
☐ Short-sleeve shirtdress 0.29
☐ Sleeveless, scoop neck 0.23

Sweaters

☐ Sleeveless vest 0.13
☐ Longsleeve (thin) 0.25
☐ Longsleeve (thick) 0.38

Suit Jackets and Vests

☐ Single-breasted 0.38
☐ Double-breasted 0.42
☐ Sleeveless vest 0.10

Sleepwear

☐ Sleeveless, short gown 0.18
☐ Long-sleeve, long gown 0.48
☐ Short-sleeve pajamas 0.42
☐ Long-sleeve pajamas 0.57

Chairs

☒ Light metal chair 0.05
☐ Upholstered 2-piece chair 0.15
☐ Upholstered 1-piece chair 0.20

Physiological Data

Physiological Input

Initial Temperature 97.7 °F
 Body Mass 154 lbs
 Body Surface Area 19.70 ft²
 Exposure Time 60 minutes
 Sweating Coef. 0.56 oz/ft²-hr
 Vasodilation 13.1 pt/ft²-hr-F
 Vasoconstriction Coefficient 0.5

Model Results

Skin Blood Flow 1.80 pt/ft²-hr
 Skin Wettedness 0.06
 Skin Temperature 91.8 °F
 Core Temperature 97.8 °F

Humidity Specification

☒ Relative Humidity
☐ Vapor Pressure
☐ Dew Point
☐ Wet Bulb
☐ Humidity Ratio

OK

Cancel

Detailed Input

Barometric Pressure 29.5 in HG
 Turbulence Intensity 40 %
 Mean Outdoor Temp 87.0

OK

Cancel

☐ Use Int-Hout 1990 Model

☒ Use Air Velocity Correction (Air Velocity + 0.3*(Met-1))