

Refrigerant Operating Pressures and Temperatures

Liquid pressure at Liquid service valve pressure tap _____ PSIG
Vapor pressure at suction service valve pressure tap _____ PSIG
Liquid pressure at liquid line charging port (heat pumps) _____ PSIG
Vapor pressure at suction line charging port (heat pumps) _____ PSIG
Liquid line temperature at service valve location _____ °F
Suction line temperature at service valve location _____ °F
Suction line temperature leaving indoor coil _____ °F

Super Heat and Sub Cooling Calculations

Temperature of suction line at service valve _____ °F db
Pressure at service valve converted to temperature - _____ °F db
Temperature difference in super heat _____ °F db SH

Pressure at liquid line service valve converted to temperature _____ °F db
Temperature of liquid line at service valve - _____ °F db
Temperature difference in sub cooling _____ °F db

Indoor and outdoor coil Delta temperatures

Temperature of air entering indoor coil _____ °F db, _____ °F wb (return)
Temperature of air leaving indoor coil _____ °F db, _____ °F wb (supply)
Temperature entering outdoor coil _____ °F db (1 inch from coil surface)

Total heat calculation

Wet Bulb temperature of air leaving indoor coil converted to BTU per pound of dry air _____ BTU [H₂] (enthalpy at saturation)

Wet bulb temperature of air entering indoor coil converted to BTU per pound of dry air _____ BTU [H₁] (enthalpy at saturation)

$$H_t = \text{CFM}_T \times 4.5 \times (h_1 - h_2)$$

$$H_t = \text{_____ BTUs}$$

Report completed by:

Date: