

MIDWEST MECHANICAL SERVICES AND SOLUTIONS IS READY TO RESPOND TO ANY SITUATION WITHIN A 100 MILE RADIUS OF OUR HEADQUARTERS WITHIN A MATTER OF MINUTES.



°C=5/9 °F-32
°F=9/5 °C+32

| °F | PSIA (R717) | PSIG (R717) |
|-----|-------------|-------------|
| -50 | 7.6 | 14.3 |
| -45 | 8.9 | 11.7 |
| -40 | 10.4 | 8.7 |
| -35 | 12.0 | 5.4 |
| -30 | 13.9 | 1.6 |
| -28 | 14.7 | 0.0 |
| -26 | 15.5 | 0.8 |
| -24 | 16.4 | 1.7 |
| -22 | 17.3 | 2.6 |
| -20 | 18.2 | 3.5 |
| -18 | 19.2 | 4.5 |
| -16 | 20.3 | 5.6 |
| -14 | 21.4 | 6.7 |
| -12 | 22.5 | 7.8 |
| -10 | 23.7 | 9.0 |
| -8 | 24.9 | 10.2 |
| -6 | 26.2 | 11.5 |
| -4 | 27.5 | 12.8 |
| -2 | 28.9 | 14.2 |
| 0 | 30.3 | 15.6 |
| 2 | 31.8 | 17.1 |
| 4 | 33.4 | 18.7 |
| 6 | 35.0 | 20.3 |
| 8 | 36.7 | 22.0 |
| 10 | 38.4 | 23.7 |
| 12 | 40.2 | 25.5 |
| 14 | 42.1 | 27.4 |
| 16 | 44.0 | 29.3 |
| 18 | 46.0 | 31.3 |

PRESSURE TEMPERATURE CHART

Automatic setting for R/S Ammonia Refrigeration Control Valves

- S5A --- OUT for automatic
- S7A --- OUT for automatic
- S4A --- IN for Automatic
- S6N --- OUT for automatic
- S8F --- OUT for automatic
- S5C4 --- IN for Automatic
- S9A --- IN for Automatic
- S4W --- OUT for automatic
- S9W --- OUT for automatic
- A4A --- IN for Automatic
- CK2 --- OUT for automatic
- A4AD --- When ENERGIZED
Set for LOW Pressure
When DE-ENERGIZED
Set for HIGH Pressure
Stem IN for Automatic

SENSIBLE HEAT FORMULA
 $Q = M \times CP \times (T1 - T2)$

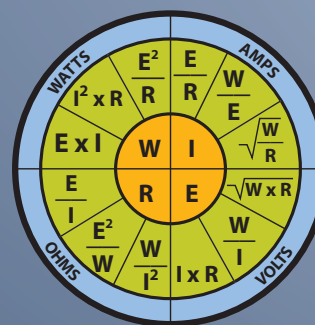
| °F | PSIA (R717) | PSIG (R717) |
|-----|-------------|-------------|
| 20 | 48.1 | 33.4 |
| 22 | 50.2 | 35.5 |
| 24 | 52.4 | 37.7 |
| 26 | 54.7 | 40.0 |
| 28 | 57.1 | 42.4 |
| 30 | 59.6 | 44.9 |
| 32 | 62.1 | 47.4 |
| 34 | 64.7 | 50.0 |
| 36 | 67.4 | 52.7 |
| 38 | 70.2 | 55.5 |
| 40 | 73.1 | 58.4 |
| 45 | 81.7 | 67.0 |
| 50 | 89.0 | 74.3 |
| 55 | 97.7 | 83.1 |
| 60 | 107.3 | 92.6 |
| 65 | 117.5 | 102.8 |
| 70 | 128.5 | 113.8 |
| 75 | 140.2 | 125.5 |
| 80 | 152.7 | 138.0 |
| 85 | 166.0 | 151.3 |
| 90 | 180.2 | 165.5 |
| 95 | 195.4 | 190.7 |
| 100 | 211.4 | 196.7 |
| 105 | 228.4 | 213.7 |
| 110 | 246.5 | 231.8 |
| 115 | 265.6 | 250.9 |
| 120 | 286.4 | 271.7 |
| 125 | 307.8 | 293.1 |
| 130 | 329.7 | 315.0 |

LATENT HEAT FORMULA
 $Q_L = M \times H_L$

HANSEN VALVES

ALL Hansen Valves --- OUT for Automatic
HA4AD -- ENERGIZED for LOW Pressure
DE-ENERGIZED for HIGH Pressure

OHM'S LAW CIRCLE



- AT SEA LEVEL (14.7 PSIA)
- NH₃ (Liquid) = 5.69 lbs./US gal.
- NH₃ (Liquid) = 42.59 lbs./ cu. ft.
- NH₃ (Liquid) = .0235 cu. ft. / lbs.
- NH₃ (Vapor) = .0554 lbs. / cu. ft.
- NH₃ (Vapor) = 18.05.cu.ft. / lbs.

ASK ABOUT OUR FREE MRI (MECHANICAL RISK INDEX) AND HOW IT COULD MEAN BIG SAVINGS FOR YOUR COMPANY.

