

# P-T

**PRESSURE/TEMPERATURE DATA**  
**ALTERNATIVE REFRIGERANTS**  
**COMPARED TO R22**  
 [ Liquid Phase Pressures ]

TEMPERATURE [ F° ]

| Temp      | R22           | R421A         | R407C         | R438A         |
|-----------|---------------|---------------|---------------|---------------|
| -60       | -5.8595       | -5.9429       | -4.5845       | -5.1981       |
| -55       | -4.5062       | -4.5926       | -3.0402       | -3.7452       |
| -50       | -2.9928       | -3.0816       | -1.3137       | -2.1207       |
| -45       | -1.3064       | -1.3968       | 0.60987       | -0.31097      |
| -40       | 0.56656       | 0.47545       | 2.7459        | 1.6985        |
| -35       | 2.6400        | 2.5492        | 5.1102        | 3.9226        |
| -30       | 4.9284        | 4.8391        | 7.7191        | 6.3766        |
| -25       | 7.4464        | 7.3599        | 10.590        | 9.0764        |
| -20       | 10.210        | 10.127        | 13.739        | 12.038        |
| -15       | 13.233        | 13.157        | 17.186        | 15.279        |
| -10       | 16.534        | 16.465        | 20.948        | 18.815        |
| -5        | 20.128        | 20.069        | 25.044        | 22.664        |
| 0         | 24.032        | 23.985        | 29.493        | 26.845        |
| 5         | 28.264        | 28.231        | 34.315        | 31.376        |
| 10        | 32.840        | 32.824        | 39.529        | 36.274        |
| 15        | 37.779        | 37.783        | 45.158        | 41.559        |
| 20        | 43.099        | 43.127        | 51.220        | 47.251        |
| 25        | 48.818        | 48.873        | 57.737        | 53.369        |
| 30        | 54.955        | 55.042        | 64.731        | 59.933        |
| 35        | 61.529        | 61.652        | 72.223        | 66.963        |
| 40        | 68.559        | 68.724        | 80.236        | 74.479        |
| 45        | 76.065        | 76.279        | 88.791        | 82.504        |
| 50        | 84.067        | 84.336        | 97.913        | 91.058        |
| 55        | 92.585        | 92.916        | 107.62        | 100.16        |
| 60        | 101.64        | 102.04        | 117.95        | 109.84        |
| 65        | 111.25        | 111.73        | 128.90        | 120.11        |
| 70        | 121.44        | 122.02        | 140.52        | 131.00        |
| 75        | 132.22        | 132.91        | 152.83        | 142.53        |
| 80        | 143.63        | 144.44        | 165.84        | 154.72        |
| 85        | 155.68        | 156.62        | 179.59        | 167.59        |
| 90        | 168.40        | 169.49        | 194.09        | 181.18        |
| <b>95</b> | <b>181.80</b> | <b>183.06</b> | <b>209.39</b> | <b>195.51</b> |
| 100       | 195.91        | 197.37        | 225.49        | 210.59        |
| 105       | 210.76        | 212.43        | 242.44        | 226.46        |
| 110       | 226.37        | 228.28        | 260.25        | 243.14        |
| 115       | 242.76        | 244.94        | 278.96        | 260.67        |
| 120       | 259.96        | 262.44        | 298.59        | 279.05        |
| 125       | 277.99        | 280.81        | 319.17        | 298.34        |
| 130       | 296.89        | 300.08        | 340.74        | 318.54        |
| 135       | 316.67        | 320.28        | 363.32        | 339.70        |
| 140       | 337.38        | 341.45        | 386.95        | 361.85        |
| 145       | 359.04        | 363.63        | 411.66        | 385.02        |
| 150       | 381.68        | 386.85        | 437.47        | 409.24        |
| 155       | 405.34        | 411.16        | 464.44        | 434.54        |
| 160       | 430.05        | 436.59        | 492.57        | 460.96        |

PRESSURE [ psig ]

