

| Physical Properties of Refrigerants              | R407C  |
|--|--------|
| Environmental Classification                     | HFC    |
| Molecular Weight                                 | 86.2   |
| Boiling Point (1atm, °F)                         | -43.6  |
| Critical Pressure (psia)                         | 672.1  |
| Critical Temperature (°F)                        | 187    |
| Critical Density(lb./ft <sup>3</sup> )           | 32     |
| Liquid Density (20 °F,lb./ft <sup>3</sup> )      | 72.4   |
| Vapor Density (bp,lb./ft <sup>3</sup> )          | 0.289  |
| Heat of Vaporization(bp,BTU/lb.)                 | 106.7  |
| Specific Head Liquid( 20 °F, BTU/lb. °F)         | 0.3597 |
| Specific Head Vapor (1atm, 20 °F,BTU/lb. °F)     | 0.1987 |
| Ozone Depletion Potential (CFC 11 -1.0)          | 0      |
| Global Warming Potential (CO <sub>2</sub> = 1.0) | 1770   |
| ASHRAE Standard 34 Safety Rating                 | A1     |

Pressure- Temp Chart

| Temp °C | Liquid psig | Vapor psig |
|---------|-------------|------------|
| -40     | 3           | 4.4"       |
| -37.2   | 5.4         | 0.6"       |
| -34.4   | 8           | 1.8        |
| -31.6   | 10.9        | 4.1        |
| -28.8   | 14.1        | 6.6        |
| -26.1   | 17.6        | 9.4        |
| -23.3   | 21.3        | 12.5       |
| -17.7   | 25.4        | 15.9       |
| -20.5   | 29.9        | 19.6       |
| -15     | 34.7        | 23.6       |
| -12.2   | 39.9        | 28.0       |
| -9.4    | 45.6        | 32.8       |
| -6.6    | 51.6        | 38.0       |
| -3.8    | 58.2        | 43.6       |
| -1.1    | 65.2        | 49.6       |
| 1.6     | 72.6        | 56.1       |
| 4.4     | 80.7        | 63.1       |
| 7.2     | 89.2        | 70.6       |
| 10      | 98.3        | 78.7       |
| 12.7    | 108         | 87.3       |
| 15.5    | 118         | 96.8       |
| 18.3    | 129         | 106        |
| 21.1    | 141         | 117        |
| 23.8    | 153         | 128        |
| 26.6    | 166         | 140        |
| 29.4    | 180         | 153        |
| 32.2    | 195         | 166        |
| 35      | 210         | 181        |
| 37.7    | 226         | 196        |
| 40.5    | 243         | 211        |
| 43.3    | 261         | 229        |
| 46.1    | 280         | 247        |
| 48.8    | 300         | 266        |
| 51.6    | 321         | 286        |
| 54.4    | 342         | 307        |
| 57.2    | 365         | 329        |
| 60      | 389         | 353        |

# R407C

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