



## Pressure Temperature Charts

| °F  | °C    | R-422B<br>Liquid | R-422B<br>Vapor |
|-----|-------|------------------|-----------------|
| -40 | -40   | 0.9              | 2.7             |
| -35 | -37.2 | 3.0              | 0.9             |
| -30 | -34.4 | 5.4              | 1.1             |
| -25 | -31.7 | 7.9              | 3.2             |
| -20 | -28.9 | 10.7             | 5.7             |
| -15 | -26.1 | 13.8             | 8.3             |
| -10 | -23.3 | 17.1             | 11.3            |
| -5  | -20.6 | 20.7             | 14.5            |
| 0   | -17.8 | 24.7             | 18.0            |
| 5   | -15.0 | 29.0             | 21.9            |
| 10  | -12.2 | 33.6             | 26.1            |
| 15  | -9.4  | 38.6             | 30.6            |
| 20  | -6.7  | 43.9             | 35.5            |
| 25  | -3.9  | 49.7             | 40.8            |
| 30  | -1.1  | 55.9             | 46.6            |
| 35  | 1.7   | 62.5             | 52.7            |
| 40  | 4.4   | 69.6             | 59.4            |
| 45  | 7.2   | 77.2             | 66.5            |
| 50  | 10.0  | 85.3             | 74.1            |
| 55  | 12.8  | 94.0             | 82.2            |

| °F  | °C   | R-422B<br>Liquid | R-422B<br>Vapor |
|-----|------|------------------|-----------------|
| 60  | 15.6 | 103.0            | 90.9            |
| 65  | 18.3 | 113.0            | 100.0           |
| 70  | 21.1 | 123.0            | 110.0           |
| 75  | 23.9 | 134.0            | 120.0           |
| 80  | 26.7 | 145.0            | 132.0           |
| 85  | 29.4 | 158.0            | 143.0           |
| 90  | 32.2 | 170.0            | 156.0           |
| 95  | 35.0 | 184.0            | 169.0           |
| 100 | 37.8 | 198.0            | 183.0           |
| 105 | 40.6 | 213.0            | 198.0           |
| 110 | 43.3 | 229.0            | 213.0           |
| 115 | 46.1 | 246.0            | 230.0           |
| 120 | 48.9 | 263.0            | 247.0           |
| 125 | 51.7 | 281.0            | 265.0           |
| 130 | 54.4 | 301.0            | 284.0           |
| 135 | 57.2 | 321.0            | 304.0           |
| 140 | 60.0 | 342.0            | 326.0           |

**Vapor Pressure in PSIG  
In Vacuum (inches in Hg)**

## Refrigerant Boiling Point

| Refrigerant | Components                                                                                        | BP (0 PSIG): |
|-------------|---------------------------------------------------------------------------------------------------|--------------|
| R-422B      | R-125 (55%), R-134A (42%), R-600A (3%)<br>Pentafluoroethane, 1,1,1,2-Tetrafluoroethane, Isobutane | -42.4°F      |

## Physical Properties

|                                      | R-422B      |
|--------------------------------------|-------------|
| Environmental Classification         | HFC         |
| Molecular Weight                     | 108.5 g/mol |
| Boiling Point (1atm, °F)             | -42.4       |
| Critical Pressure (psia)             | 574.1       |
| Critical Temperature (°F)            | 181.8       |
| Critical Density (lb./ft ^3)         | 32.9        |
| Vapor Density (bp, lb./ft ^3)        | 0.363       |
| Heat of Vaporization (bp, BTU/lb.)   | 84.2        |
| Global Warming Potential (CO2 = 1.0) | 2525        |
| ASHRAE Standard 34 Safety Rating     | A1          |

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