

R450A (N13) Pressure Temperature Chart

| R450A (N13) Temperature (°C) | Liquid | | | Vapour | | |
|------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | Pressure (barA) | Pressure (barg) | Pressure (psig) | Pressure (barA) | Pressure (barg) | Pressure (psig) |
| -70 | 0.07 | -0.94 | -13.67 | 0.07 | -0.95 | -13.71 |
| -68 | 0.08 | -0.93 | -13.52 | 0.08 | -0.94 | -13.56 |
| -66 | 0.09 | -0.92 | -13.34 | 0.09 | -0.92 | -13.39 |
| -64 | 0.11 | -0.91 | -13.14 | 0.10 | -0.91 | -13.19 |
| -62 | 0.12 | -0.89 | -12.91 | 0.12 | -0.89 | -12.98 |
| -60 | 0.14 | -0.87 | -12.66 | 0.13 | -0.88 | -12.73 |
| -58 | 0.16 | -0.85 | -12.38 | 0.15 | -0.86 | -12.46 |
| -56 | 0.18 | -0.83 | -12.07 | 0.17 | -0.84 | -12.16 |
| -54 | 0.20 | -0.81 | -11.72 | 0.20 | -0.82 | -11.83 |
| -52 | 0.23 | -0.78 | -11.34 | 0.22 | -0.79 | -11.46 |
| -50 | 0.26 | -0.75 | -10.92 | 0.25 | -0.76 | -11.05 |
| -48 | 0.29 | -0.72 | -10.46 | 0.28 | -0.73 | -10.60 |
| -46 | 0.33 | -0.69 | -9.96 | 0.32 | -0.70 | -10.11 |
| -44 | 0.36 | -0.65 | -9.40 | 0.35 | -0.66 | -9.57 |
| -42 | 0.41 | -0.61 | -8.79 | 0.39 | -0.62 | -8.98 |
| -40 | 0.45 | -0.56 | -8.13 | 0.44 | -0.57 | -8.33 |
| -38 | 0.50 | -0.51 | -7.41 | 0.49 | -0.53 | -7.63 |
| -36 | 0.56 | -0.46 | -6.63 | 0.54 | -0.47 | -6.87 |
| -34 | 0.61 | -0.40 | -5.78 | 0.60 | -0.42 | -6.04 |
| -32 | 0.68 | -0.34 | -4.87 | 0.66 | -0.36 | -5.15 |
| -30 | 0.75 | -0.27 | -3.87 | 0.72 | -0.29 | -4.18 |
| -28 | 0.82 | -0.19 | -2.81 | 0.80 | -0.22 | -3.14 |
| -26 | 0.90 | -0.11 | -1.65 | 0.87 | -0.14 | -2.01 |
| -24 | 0.98 | -0.03 | -0.42 | 0.96 | -0.06 | -0.80 |
| -22 | 1.08 | 0.06 | 0.91 | 1.05 | 0.03 | 0.50 |
| -20 | 1.17 | 0.16 | 2.34 | 1.14 | 0.13 | 1.89 |
| -18 | 1.28 | 0.27 | 3.86 | 1.25 | 0.23 | 3.38 |
| -16 | 1.39 | 0.38 | 5.49 | 1.36 | 0.34 | 4.98 |
| -14 | 1.51 | 0.50 | 7.23 | 1.47 | 0.46 | 6.68 |
| -12 | 1.64 | 0.63 | 9.09 | 1.60 | 0.59 | 8.50 |
| -10 | 1.78 | 0.76 | 11.06 | 1.73 | 0.72 | 10.43 |
| -8 | 1.92 | 0.91 | 13.16 | 1.87 | 0.86 | 12.49 |
| -6 | 2.07 | 1.06 | 15.39 | 2.03 | 1.01 | 14.67 |
| -4 | 2.24 | 1.22 | 17.76 | 2.19 | 1.17 | 16.99 |
| -2 | 2.41 | 1.40 | 20.27 | 2.35 | 1.34 | 19.45 |
| 0 | 2.59 | 1.58 | 22.92 | 2.53 | 1.52 | 22.06 |
| 2 | 2.79 | 1.77 | 25.73 | 2.72 | 1.71 | 24.81 |
| 4 | 2.99 | 1.98 | 28.69 | 2.93 | 1.91 | 27.72 |
| 6 | 3.21 | 2.19 | 31.82 | 3.14 | 2.12 | 30.80 |
| 8 | 3.43 | 2.42 | 35.12 | 3.36 | 2.35 | 34.04 |
| 10 | 3.67 | 2.66 | 38.59 | 3.60 | 2.58 | 37.45 |
| 12 | 3.93 | 2.91 | 42.24 | 3.84 | 2.83 | 41.05 |



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|------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | Pressure (barA) | Pressure (barg) | Pressure (psig) | Pressure (barA) | Pressure (barg) | Pressure (psig) |
| 14 | 4.19 | 3.18 | 46.09 | 4.10 | 3.09 | 44.83 |
| 16 | 4.47 | 3.46 | 50.13 | 4.38 | 3.37 | 48.80 |
| 18 | 4.76 | 3.75 | 54.36 | 4.67 | 3.65 | 52.97 |
| 20 | 5.07 | 4.06 | 58.80 | 4.97 | 3.96 | 57.35 |
| 22 | 5.39 | 4.38 | 63.46 | 5.28 | 4.27 | 61.94 |
| 24 | 5.73 | 4.71 | 68.34 | 5.62 | 4.60 | 66.74 |
| 26 | 6.08 | 5.06 | 73.44 | 5.96 | 4.95 | 71.77 |
| 28 | 6.45 | 5.43 | 78.78 | 6.33 | 5.31 | 77.04 |
| 30 | 6.83 | 5.82 | 84.35 | 6.71 | 5.69 | 82.54 |
| 32 | 7.23 | 6.22 | 90.17 | 7.10 | 6.09 | 88.28 |
| 34 | 7.65 | 6.64 | 96.25 | 7.51 | 6.50 | 94.28 |
| 36 | 8.09 | 7.07 | 102.58 | 7.95 | 6.93 | 100.53 |
| 38 | 8.54 | 7.53 | 109.18 | 8.40 | 7.38 | 107.06 |
| 40 | 9.02 | 8.00 | 116.06 | 8.87 | 7.85 | 113.86 |
| 42 | 9.51 | 8.50 | 123.22 | 9.35 | 8.34 | 120.94 |
| 44 | 10.02 | 9.01 | 130.67 | 9.86 | 8.85 | 128.30 |
| 46 | 10.56 | 9.55 | 138.41 | 10.39 | 9.38 | 135.97 |
| 48 | 11.11 | 10.10 | 146.46 | 10.94 | 9.93 | 143.94 |
| 50 | 11.69 | 10.68 | 154.83 | 11.51 | 10.50 | 152.22 |
| 52 | 12.29 | 11.28 | 163.52 | 12.11 | 11.09 | 160.83 |
| 54 | 12.91 | 11.90 | 172.52 | 12.72 | 11.71 | 169.77 |
| 56 | 13.56 | 12.54 | 181.87 | 13.36 | 12.35 | 179.03 |
| 58 | 14.23 | 13.21 | 191.57 | 14.02 | 13.01 | 188.66 |
| 60 | 14.92 | 13.91 | 201.62 | 14.71 | 13.70 | 198.64 |
| 62 | 15.64 | 14.62 | 212.03 | 15.43 | 14.41 | 208.97 |
| 64 | 16.38 | 15.37 | 222.82 | 16.16 | 15.15 | 219.69 |
| 66 | 17.15 | 16.14 | 233.99 | 16.93 | 15.92 | 230.78 |
| 68 | 17.95 | 16.93 | 245.54 | 17.72 | 16.71 | 242.28 |
| 70 | 18.77 | 17.76 | 257.49 | 18.54 | 17.53 | 254.19 |

