

# RS-44 (R424A) PRESSURE & TEMPERATURE TABLE : ABSOLUTE



| TEMPERATURE | BUBBLE PRESSURE (LIQUID) | DEW PRESSURE (VAPOUR) | BUBBLE PRESSURE (LIQUID) | DEW PRESSURE (VAPOUR) | BUBBLE PRESSURE (LIQUID) | DEW PRESSURE (VAPOUR) |
|-------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
| (oC)        | (kPa)                    | (kPa)                 | (bara)                   | (bara)                | (psia)                   | (psia)                |
| -60         | 33.60                    | 20.40                 | 0.34                     | 0.20                  | 4.87                     | 2.96                  |
| -58         | 37.60                    | 23.20                 | 0.38                     | 0.23                  | 5.45                     | 3.36                  |
| -56         | 42.10                    | 26.30                 | 0.42                     | 0.26                  | 6.10                     | 3.81                  |
| -54         | 47.00                    | 29.80                 | 0.47                     | 0.30                  | 6.82                     | 4.32                  |
| -52         | 52.30                    | 33.60                 | 0.52                     | 0.34                  | 7.58                     | 4.87                  |
| -50         | 58.10                    | 37.80                 | 0.58                     | 0.38                  | 8.42                     | 5.48                  |
| -48         | 64.40                    | 42.50                 | 0.64                     | 0.43                  | 9.34                     | 6.16                  |
| -46         | 71.30                    | 47.50                 | 0.71                     | 0.48                  | 10.34                    | 6.89                  |
| -44         | 78.70                    | 53.10                 | 0.79                     | 0.53                  | 11.41                    | 7.70                  |
| -42         | 86.70                    | 59.10                 | 0.87                     | 0.59                  | 12.57                    | 8.57                  |
| -40         | 95.30                    | 65.70                 | 0.95                     | 0.66                  | 13.82                    | 9.53                  |
| -38         | 104.60                   | 72.80                 | 1.05                     | 0.73                  | 15.17                    | 10.56                 |
| -36         | 114.60                   | 80.60                 | 1.15                     | 0.81                  | 16.62                    | 11.69                 |
| -34         | 125.30                   | 89.00                 | 1.25                     | 0.89                  | 18.17                    | 12.91                 |
| -32         | 136.80                   | 98.10                 | 1.37                     | 0.98                  | 19.84                    | 14.22                 |
| -30         | 149.10                   | 107.90                | 1.49                     | 1.08                  | 21.62                    | 15.65                 |
| -28         | 162.30                   | 118.40                | 1.62                     | 1.18                  | 23.53                    | 17.17                 |
| -26         | 176.30                   | 129.70                | 1.76                     | 1.30                  | 25.56                    | 18.81                 |
| -24         | 191.30                   | 141.90                | 1.91                     | 1.42                  | 27.74                    | 20.58                 |
| -22         | 207.20                   | 154.90                | 2.07                     | 1.55                  | 30.04                    | 22.46                 |
| -20         | 224.20                   | 168.90                | 2.24                     | 1.69                  | 32.51                    | 24.49                 |
| -18         | 242.10                   | 183.80                | 2.42                     | 1.84                  | 35.10                    | 26.65                 |
| -16         | 261.20                   | 199.70                | 2.61                     | 2.00                  | 37.87                    | 28.96                 |
| -14         | 281.40                   | 216.70                | 2.81                     | 2.17                  | 40.80                    | 31.42                 |
| -12         | 302.80                   | 234.80                | 3.03                     | 2.35                  | 43.91                    | 34.05                 |
| -10         | 325.40                   | 254.00                | 3.25                     | 2.54                  | 47.18                    | 36.83                 |
| -8          | 349.20                   | 274.40                | 3.49                     | 2.74                  | 50.63                    | 39.79                 |
| -6          | 374.40                   | 296.00                | 3.74                     | 2.96                  | 54.29                    | 42.92                 |
| -4          | 400.90                   | 318.90                | 4.01                     | 3.19                  | 58.13                    | 46.24                 |
| -2          | 428.80                   | 343.10                | 4.29                     | 3.43                  | 62.18                    | 49.75                 |
| 0           | 458.10                   | 368.80                | 4.58                     | 3.69                  | 66.42                    | 53.48                 |
| 2           | 489.00                   | 395.80                | 4.89                     | 3.96                  | 70.91                    | 57.39                 |
| 4           | 521.30                   | 424.40                | 5.21                     | 4.24                  | 75.59                    | 61.54                 |
| 6           | 555.30                   | 454.50                | 5.55                     | 4.55                  | 80.52                    | 65.90                 |
| 8           | 590.90                   | 486.20                | 5.91                     | 4.86                  | 85.68                    | 70.50                 |
| 10          | 628.20                   | 519.50                | 6.28                     | 5.20                  | 91.09                    | 75.33                 |
| 12          | 667.20                   | 554.60                | 6.67                     | 5.55                  | 96.74                    | 80.42                 |
| 14          | 708.00                   | 591.40                | 7.08                     | 5.91                  | 102.66                   | 85.75                 |
| 16          | 750.70                   | 630.10                | 7.51                     | 6.30                  | 108.85                   | 91.36                 |
| 18          | 795.20                   | 670.60                | 7.95                     | 6.71                  | 115.30                   | 97.24                 |
| 20          | 841.70                   | 713.00                | 8.42                     | 7.13                  | 122.05                   | 103.39                |
| 22          | 890.10                   | 757.50                | 8.90                     | 7.58                  | 129.06                   | 109.84                |
| 24          | 940.60                   | 804.00                | 9.41                     | 8.04                  | 136.39                   | 116.58                |
| 26          | 993.20                   | 852.70                | 9.93                     | 8.53                  | 144.01                   | 123.64                |
| 28          | 1048.00                  | 903.50                | 10.48                    | 9.04                  | 151.96                   | 131.01                |
| 30          | 1105.00                  | 956.60                | 11.05                    | 9.57                  | 160.23                   | 138.71                |
| 32          | 1164.20                  | 1012.00               | 11.64                    | 10.12                 | 168.81                   | 146.74                |
| 34          | 1225.70                  | 1069.80               | 12.26                    | 10.70                 | 177.73                   | 155.12                |
| 36          | 1289.70                  | 1130.10               | 12.90                    | 11.30                 | 187.01                   | 163.86                |
| 38          | 1356.10                  | 1192.90               | 13.56                    | 11.93                 | 196.63                   | 172.97                |
| 40          | 1425.00                  | 1258.30               | 14.25                    | 12.58                 | 206.63                   | 182.45                |
| 42          | 1496.40                  | 1326.40               | 14.96                    | 13.26                 | 216.98                   | 192.33                |
| 44          | 1570.50                  | 1397.20               | 15.71                    | 13.97                 | 227.72                   | 202.59                |
| 46          | 1647.20                  | 1470.90               | 16.47                    | 14.71                 | 238.84                   | 213.28                |
| 48          | 1726.80                  | 1547.50               | 17.27                    | 15.48                 | 250.39                   | 224.39                |
| 50          | 1809.10                  | 1627.20               | 18.09                    | 16.27                 | 262.32                   | 235.94                |
| 52          | 1894.30                  | 1710.00               | 18.94                    | 17.10                 | 274.67                   | 247.95                |
| 54          | 1982.50                  | 1796.00               | 19.83                    | 17.96                 | 287.46                   | 260.42                |
| 56          | 2073.70                  | 1885.30               | 20.74                    | 18.85                 | 300.69                   | 273.37                |
| 58          | 2168.00                  | 1978.00               | 21.68                    | 19.78                 | 314.36                   | 286.81                |
| 60          | 2265.50                  | 2074.30               | 22.66                    | 20.74                 | 328.50                   | 300.77                |
| 62          | 2366.30                  | 2174.30               | 23.66                    | 21.74                 | 343.11                   | 315.27                |
| 64          | 2470.40                  | 2278.10               | 24.70                    | 22.78                 | 358.21                   | 330.32                |
| 66          | 2577.80                  | 2385.90               | 25.78                    | 23.86                 | 373.78                   | 345.96                |
| 68          | 2688.80                  | 2497.80               | 26.89                    | 24.98                 | 389.88                   | 362.18                |
| 70          | 2803.40                  | 2614.10               | 28.03                    | 26.14                 | 406.49                   | 379.04                |
| 72          | 2921.60                  | 2734.90               | 29.22                    | 27.35                 | 423.63                   | 396.56                |
| 74          | 3043.60                  | 2860.60               | 30.44                    | 28.61                 | 441.32                   | 414.79                |
| 76          | 3169.40                  | 2991.40               | 31.69                    | 29.91                 | 459.56                   | 433.75                |
| 78          | 3299.00                  | 3127.90               | 32.99                    | 31.28                 | 478.36                   | 453.55                |
| 80          | 3432.40                  | 3270.60               | 34.32                    | 32.71                 | 497.70                   | 474.24                |

TEMPERATURE GLIDE: APPROXIMATELY 3 DEG C

# RS-44 (R424A) PRESSURE & TEMPERATURE TABLE : GAUGE



| TEMPERATURE | BUBBLE PRESSURE (LIQUID) | DEW PRESSURE (VAPOUR) | BUBBLE PRESSURE (LIQUID) | DEW PRESSURE (VAPOUR) | BUBBLE PRESSURE (LIQUID) | DEW PRESSURE (VAPOUR) |
|-------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|
| (oC)        | (kPag)                   | (kPag)                | (barg)                   | (barg)                | (psig)                   | (psig)                |
| -60         | -66.40                   | -79.60                | -0.66                    | -0.80                 | -9.83                    | -11.74                |
| -58         | -62.40                   | -76.80                | -0.62                    | -0.77                 | -9.25                    | -11.34                |
| -56         | -57.90                   | -73.70                | -0.58                    | -0.74                 | -8.60                    | -10.89                |
| -54         | -53.00                   | -70.20                | -0.53                    | -0.70                 | -7.89                    | -10.38                |
| -52         | -47.70                   | -66.40                | -0.48                    | -0.66                 | -7.12                    | -9.83                 |
| -50         | -41.90                   | -62.20                | -0.42                    | -0.62                 | -6.28                    | -9.22                 |
| -48         | -35.60                   | -57.50                | -0.36                    | -0.58                 | -5.36                    | -8.54                 |
| -46         | -28.70                   | -52.50                | -0.29                    | -0.53                 | -4.36                    | -7.81                 |
| -44         | -21.30                   | -46.90                | -0.21                    | -0.47                 | -3.29                    | -7.00                 |
| -42         | -13.30                   | -40.90                | -0.13                    | -0.41                 | -2.13                    | -6.13                 |
| -40         | -4.70                    | -34.30                | -0.05                    | -0.34                 | -0.88                    | -5.17                 |
| -38         | 4.60                     | -27.20                | 0.05                     | -0.27                 | 0.47                     | -4.14                 |
| -36         | 14.60                    | -19.40                | 0.15                     | -0.19                 | 1.92                     | -3.01                 |
| -34         | 25.30                    | -11.00                | 0.25                     | -0.11                 | 3.47                     | -1.80                 |
| -32         | 36.80                    | -1.90                 | 0.37                     | -0.02                 | 5.14                     | -0.48                 |
| -30         | 49.10                    | 7.90                  | 0.49                     | 0.08                  | 6.92                     | 0.95                  |
| -28         | 62.30                    | 18.40                 | 0.62                     | 0.18                  | 8.83                     | 2.47                  |
| -26         | 76.30                    | 29.70                 | 0.76                     | 0.30                  | 10.86                    | 4.11                  |
| -24         | 91.30                    | 41.90                 | 0.91                     | 0.42                  | 13.04                    | 5.88                  |
| -22         | 107.20                   | 54.90                 | 1.07                     | 0.55                  | 15.34                    | 7.76                  |
| -20         | 124.20                   | 68.90                 | 1.24                     | 0.69                  | 17.81                    | 9.79                  |
| -18         | 142.10                   | 83.80                 | 1.42                     | 0.84                  | 20.40                    | 11.95                 |
| -16         | 161.20                   | 99.70                 | 1.61                     | 1.00                  | 23.17                    | 14.26                 |
| -14         | 181.40                   | 116.70                | 1.81                     | 1.17                  | 26.10                    | 16.72                 |
| -12         | 202.80                   | 134.80                | 2.03                     | 1.35                  | 29.21                    | 19.35                 |
| -10         | 225.40                   | 154.00                | 2.25                     | 1.54                  | 32.48                    | 22.13                 |
| -8          | 249.20                   | 174.40                | 2.49                     | 1.74                  | 35.93                    | 25.09                 |
| -6          | 274.40                   | 196.00                | 2.74                     | 1.96                  | 39.59                    | 28.22                 |
| -4          | 300.90                   | 218.90                | 3.01                     | 2.19                  | 43.43                    | 31.54                 |
| -2          | 328.80                   | 243.10                | 3.29                     | 2.43                  | 47.48                    | 35.05                 |
| 0           | 358.10                   | 268.80                | 3.58                     | 2.69                  | 51.72                    | 38.78                 |
| 2           | 389.00                   | 295.80                | 3.89                     | 2.96                  | 56.21                    | 42.69                 |
| 4           | 421.30                   | 324.40                | 4.21                     | 3.24                  | 60.89                    | 46.84                 |
| 6           | 455.30                   | 354.50                | 4.55                     | 3.55                  | 65.82                    | 51.20                 |
| 8           | 490.90                   | 386.20                | 4.91                     | 3.86                  | 70.98                    | 55.80                 |
| 10          | 528.20                   | 419.50                | 5.28                     | 4.20                  | 76.39                    | 60.63                 |
| 12          | 567.20                   | 454.60                | 5.67                     | 4.55                  | 82.04                    | 65.72                 |
| 14          | 608.00                   | 491.40                | 6.08                     | 4.91                  | 87.96                    | 71.05                 |
| 16          | 650.70                   | 530.10                | 6.51                     | 5.30                  | 94.15                    | 76.66                 |
| 18          | 695.20                   | 570.60                | 6.95                     | 5.71                  | 100.60                   | 82.54                 |
| 20          | 741.70                   | 613.00                | 7.42                     | 6.13                  | 107.35                   | 88.69                 |
| 22          | 790.10                   | 657.50                | 7.90                     | 6.58                  | 114.36                   | 95.14                 |
| 24          | 840.60                   | 704.00                | 8.41                     | 7.04                  | 121.69                   | 101.88                |
| 26          | 893.20                   | 752.70                | 8.93                     | 7.53                  | 129.31                   | 108.94                |
| 28          | 948.00                   | 803.50                | 9.48                     | 8.04                  | 137.26                   | 116.31                |
| 30          | 1005.00                  | 856.60                | 10.05                    | 8.57                  | 145.53                   | 124.01                |
| 32          | 1064.20                  | 912.00                | 10.64                    | 9.12                  | 154.11                   | 132.04                |
| 34          | 1125.70                  | 969.80                | 11.26                    | 9.70                  | 163.03                   | 140.42                |
| 36          | 1189.70                  | 1030.10               | 11.90                    | 10.30                 | 172.31                   | 149.16                |
| 38          | 1256.10                  | 1092.90               | 12.56                    | 10.93                 | 181.93                   | 158.27                |
| 40          | 1325.00                  | 1158.30               | 13.25                    | 11.58                 | 191.93                   | 167.75                |
| 42          | 1396.40                  | 1226.40               | 13.96                    | 12.26                 | 202.28                   | 177.63                |
| 44          | 1470.50                  | 1297.20               | 14.71                    | 12.97                 | 213.02                   | 187.89                |
| 46          | 1547.20                  | 1370.90               | 15.47                    | 13.71                 | 224.14                   | 198.58                |
| 48          | 1626.80                  | 1447.50               | 16.27                    | 14.48                 | 235.69                   | 209.69                |
| 50          | 1709.10                  | 1527.20               | 17.09                    | 15.27                 | 247.62                   | 221.24                |
| 52          | 1794.30                  | 1610.00               | 17.94                    | 16.10                 | 259.97                   | 233.25                |
| 54          | 1882.50                  | 1696.00               | 18.83                    | 16.96                 | 272.76                   | 245.72                |
| 56          | 1973.70                  | 1785.30               | 19.74                    | 17.85                 | 285.99                   | 258.67                |
| 58          | 2068.00                  | 1878.00               | 20.68                    | 18.78                 | 299.66                   | 272.11                |
| 60          | 2165.50                  | 1974.30               | 21.66                    | 19.74                 | 313.80                   | 286.07                |
| 62          | 2266.30                  | 2074.30               | 22.66                    | 20.74                 | 328.41                   | 300.57                |
| 64          | 2370.40                  | 2178.10               | 23.70                    | 21.78                 | 343.51                   | 315.62                |
| 66          | 2477.80                  | 2285.90               | 24.78                    | 22.86                 | 359.08                   | 331.26                |
| 68          | 2588.80                  | 2397.80               | 25.89                    | 23.98                 | 375.18                   | 347.48                |
| 70          | 2703.40                  | 2514.10               | 27.03                    | 25.14                 | 391.79                   | 364.34                |
| 72          | 2821.60                  | 2634.90               | 28.22                    | 26.35                 | 408.93                   | 381.86                |
| 74          | 2943.60                  | 2760.60               | 29.44                    | 27.61                 | 426.62                   | 400.09                |
| 76          | 3069.40                  | 2891.40               | 30.69                    | 28.91                 | 444.86                   | 419.05                |
| 78          | 3199.00                  | 3027.90               | 31.99                    | 30.28                 | 463.66                   | 438.85                |
| 80          | 3332.40                  | 3170.60               | 33.32                    | 31.71                 | 483.00                   | 459.54                |

TEMPERATURE GLIDE: APPROXIMATELY 3 DEG C