

Pressure Temperature Chart



Pressure - kPa(g)

| Temp °C | R134a | R513A | R1234yf | R1234ze | R410A | R32 | R407C | | R404A | R407F | | R449A | | R744 (CO2) | R717 (Ammonia) | Temp °C |
|------------|-------|-------|---------|---------|-------|------|-------|--------|-------|-------|--------|-------|--------|---------------|-------------------|------------|
| | | | | | | | Dew | Bubble | | Dew | Bubble | Dew | Bubble | | | |
| -50 | | | | | 9 | | | | -23 | | | | 582 | -45 | -50 | |
| -48 | | | | | 21 | | | | -15 | | | | 639 | -41 | -48 | |
| -46 | | | | | 33 | | | | -6 | | | | 700 | -37 | -46 | |
| -44 | | | | | 46 | 46 | -32 | -2 | 4 | -20 | 11 | -19 | 764 | -33 | -44 | |
| -42 | | | | | 61 | 60 | -25 | 8 | 15 | -11 | 22 | -10 | 832 | -28 | -42 | |
| -40 | | | | | 76 | 76 | -16 | 19 | 26 | -2 | 34 | 0 | 904 | -22 | -40 | |
| -38 | | | | | 93 | 92 | -7 | 30 | 39 | 9 | 47 | 10 | 980 | -16 | -38 | |
| -36 | | | | | 111 | 110 | 3 | 43 | 52 | 20 | 60 | 21 | 1060 | -10 | -36 | |
| -34 | | | | | 130 | 129 | 14 | 56 | 66 | 32 | 75 | 33 | 1145 | -3 | -34 | |
| -32 | | | | | 150 | 150 | 25 | 71 | 81 | 45 | 91 | 46 | 1234 | 7 | -32 | |
| -30 | | | | | 172 | 172 | 37 | 86 | 97 | 59 | 108 | 59 | 1327 | 18 | -30 | |
| -28 | | | | | 195 | 195 | 51 | 102 | 114 | 74 | 126 | 74 | 1426 | 32 | -28 | |
| -26 | | | | | 219 | 220 | 65 | 119 | 133 | 90 | 145 | 90 | 1529 | 43 | -26 | |
| -24 | | | | | 245 | 246 | 80 | 138 | 152 | 107 | 166 | 107 | 1637 | 59 | -24 | |
| -22 | | | | | 273 | 274 | 96 | 158 | 173 | 125 | 188 | 125 | 1750 | 71 | -22 | |
| -20 | | | | | 303 | 304 | 113 | 179 | 195 | 145 | 211 | 144 | 1869 | 89 | -20 | |
| -18 | | | | | 334 | 336 | 132 | 201 | 219 | 166 | 235 | 164 | 1993 | 109 | -18 | |
| -16 | | | | | 367 | 369 | 152 | 224 | 243 | 188 | 261 | 186 | 2123 | 124 | -16 | |
| -14 | | | | | 402 | 404 | 172 | 249 | 270 | 211 | 289 | 209 | 2259 | 147 | -14 | |
| -12 | | | | | 438 | 442 | 195 | 276 | 297 | 237 | 318 | 233 | 2401 | 164 | -12 | |
| -10 | | | | | 477 | 481 | 218 | 303 | 326 | 263 | 348 | 259 | 2548 | 190 | -10 | |
| -8 | | | | | 518 | 523 | 244 | 333 | 357 | 291 | 381 | 286 | 2702 | 217 | -8 | |
| -6 | | | | | 561 | 566 | 270 | 364 | 390 | 321 | 415 | 315 | 2863 | 239 | -6 | |
| -4 | | | | | 607 | 613 | 298 | 396 | 424 | 353 | 450 | 346 | 3030 | 269 | -4 | |
| -2 | | | | | 654 | 661 | 328 | 430 | 460 | 386 | 488 | 378 | 3204 | 294 | -2 | |
| 0 | | | | | 704 | 712 | 359 | 467 | 498 | 421 | 528 | 412 | 3385 | 328 | 0 | |
| 2 | | | | | 757 | 765 | 392 | 504 | 537 | 458 | 569 | 447 | 3573 | 365 | 2 | |
| 4 | | | | | 812 | 821 | 427 | 544 | 579 | 497 | 613 | 485 | 3768 | 395 | 4 | |
| 6 | | | | | 869 | 880 | 464 | 586 | 623 | 538 | 659 | 524 | 3972 | 435 | 6 | |
| 8 | | | | | 930 | 942 | 503 | 629 | 669 | 581 | 706 | 566 | 4183 | 468 | 8 | |
| 10 | | | | | 993 | 1006 | 544 | 675 | 716 | 626 | 757 | 609 | 4402 | 514 | 10 | |
| 12 | | | | | 1059 | 1073 | 586 | 723 | 766 | 674 | 809 | 655 | 4629 | 562 | 12 | |
| 14 | | | | | 1128 | 1144 | 631 | 773 | 819 | 723 | 864 | 703 | 4865 | 603 | 14 | |
| 16 | | | | | 1200 | 1217 | 678 | 825 | 873 | 776 | 921 | 753 | 5110 | 655 | 16 | |
| 18 | | | | | 1275 | 1294 | 727 | 879 | 929 | 830 | 980 | 805 | 5365 | 697 | 18 | |
| 20 | | | | | 1353 | 1374 | 779 | 936 | 989 | 888 | 1043 | 860 | 5629 | 756 | 20 | |
| 22 | | | | | 1435 | 1457 | 833 | 995 | 1049 | 947 | 1107 | 918 | 5903 | 819 | 22 | |
| 24 | | | | | 1520 | 1544 | 889 | 1057 | 1119 | 1010 | 1175 | 977 | 6187 | 868 | 24 | |
| 26 | | | | | 1608 | 1635 | 949 | 1121 | 1179 | 1075 | 1245 | 1040 | 6483 | 937 | 26 | |
| 28 | | | | | 1701 | 1729 | 1010 | 1188 | 1249 | 1143 | 1318 | 1105 | 6791 | 990 | 28 | |
| 30 | | | | | 1797 | 1827 | 1075 | 1258 | 1329 | 1215 | 1394 | 1173 | 7113 | 1066 | 30 | |
| 32 | | | | | 1896 | 1929 | 1142 | 1330 | 1399 | 1289 | 1473 | 1244 | 7444 | 1144 | 32 | |
| 34 | | | | | 2000 | 2035 | 1212 | 1405 | 1479 | 1366 | 1555 | 1318 | 7794 | 1206 | 34 | |
| 36 | | | | | 2108 | 2145 | 1285 | 1483 | 1559 | 1447 | 1640 | 1395 | 8163 | 1292 | 36 | |
| 38 | | | | | 2220 | 2259 | 1361 | 1564 | 1639 | 1531 | 1729 | 1475 | 8561 | 1360 | 38 | |
| 40 | | | | | 2336 | 2377 | 1440 | 1648 | 1729 | 1618 | 1820 | 1558 | 8988 | 1453 | 40 | |
| 42 | | | | | 2456 | 2500 | 1522 | 1735 | 1819 | 1709 | 1915 | 1645 | 9443 | 1552 | 42 | |
| 44 | | | | | 2581 | 2628 | 1608 | 1825 | 1909 | 1803 | 2013 | 1735 | 9928 | 1628 | 44 | |
| 46 | | | | | 2710 | 2760 | 1697 | 1918 | 2009 | 1902 | 2115 | 1828 | 10443 | 1734 | 46 | |
| 48 | | | | | 2844 | 2897 | 1790 | 2015 | 2109 | 2004 | 2221 | 1926 | 11000 | 1817 | 48 | |
| 50 | | | | | 2983 | 3040 | 1886 | 2115 | 2209 | 2110 | 2330 | 2027 | 11588 | 1932 | 50 | |
| 52 | | | | | 3126 | 3187 | 1987 | 2218 | 2319 | 2220 | 2442 | 2132 | 12200 | 2040 | 52 | |
| 54 | | | | | 3274 | 3340 | 2091 | 2325 | 2429 | 2335 | 2559 | 2241 | 12838 | 2150 | 54 | |
| 56 | | | | | 3428 | 3498 | 2199 | 2436 | 2549 | 2454 | 2680 | 2354 | 13500 | 2270 | 56 | |
| 58 | | | | | 3586 | 3661 | 2311 | 2550 | 2659 | 2577 | 2804 | 2472 | 14200 | 2390 | 58 | |
| 60 | | | | | 3749 | 3831 | 2427 | 2668 | 2789 | 2706 | 2933 | 2594 | 14940 | 2510 | 60 | |
| 62 | | | | | 3917 | 4007 | 2548 | 2790 | 2901 | 2839 | 3066 | 2721 | 15720 | 2640 | 62 | |
| 64 | | | | | 4090 | 4189 | 2674 | 2916 | 3032 | 2977 | 3203 | 2854 | 16540 | | 64 | |
| 66 | | | | | 4267 | | | | | | | | | | 66 | |
| 68 | | | | | 4448 | | | | | | | | | | 68 | |
| 70 | | | | | 4631 | | | | | | | | | | 70 | |

| Conversion Guide | POWER | | | | PRESSURE | | | | FLOW | | | | VELOCITY | | | |
|------------------|-----------|-----------|----------|--|-----------------------------------------------------|---------|----------|--|-----------|--------|----------|--|--------------|-------|----------|--|
| | FROM | TO | MULTIPLY | | FROM | TO | MULTIPLY | | FROM | TO | MULTIPLY | | FROM | TO | MULTIPLY | |
| | Btu/hr | Watts | 0.29281 | | kPa | PSI | 0.145038 | | CFM | l/sec | 0.472 | | ft/min (fpm) | m/sec | 0.00508 | |
| | Watts | Btu/hr | 3.412 | | PSI | kPa | 6.89 | | CFM | m³/sec | 0.000472 | | ft/sec (fps) | m/sec | 0.3048 | |
| | Watts | Kcal/hr | 0.86 | | kPa | Inch Hg | 0.2953 | | GPM (Imp) | l/sec | 0.0757 | | mph | kph | 1.609 | |
| | Kcal/hr | Watts | 1.163 | | Inch Hg | kPa | 3.39 | | GPM (U.S) | l/sec | 0.06309 | | knot | kph | 1.852 | |
| | Watts | HP | 0.001333 | | kPa | Bar | 0.01 | | l/sec | m³/hr | 3.6 | | | | | |
| | HP | Watts | 746 | | Bar | kPa | 100 | | | | | | | | | |
| | Watts | Ton (Ref) | 0.000284 | | Bar | PSI | 14.5038 | | | | | | | | | |
| | Ton (Ref) | Watts | 3517 | | TEMPERATURE °C = (°F - 32) 5/9 °F = (9/5 X °C) + 32 | | | | | | | | | | | |
| | kW | KJ/h | 3600 | | | | | | | | | | | | | |

| New Zealand | Auckland Branch | | Hastings | | Wellington | | | | |
|-------------|-----------------------|--------------------|------------------|-----------------------------|-------------------|---------------|--------------------|------------------|---------------|
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