

Pressure Temperature Chart

| Temp °C | Pressure kPa | | | | | | | | | | | | | | | |
|------------|--------------|-------|-------|-------|-----------------------|-------|------|-------|-------|-----------------------|-------|------|-------|-------------------------|------|------|
| | R12 | R134a | R406A | R409A | ISCEON 49 R413A | SP34E | R22 | R407C | R410A | ISCEON 59 R417A | R404A | R507 | R408A | ISCEON 69 L R403B | R502 | R717 |
| -60 | -77 | | | | | | | | | | | | | | | |
| -58 | -75 | | | | | | | | | | | | | | | |
| -56 | -72 | | | | | | | | | | | | | | | |
| -54 | -68 | | | | | | | | | | | | | | | |
| -52 | -65 | | | | | | | | | | | | | | | |
| -50 | -61 | | | | | | | | | | | | | | | |
| -48 | -57 | | | | | | | | | | | | | | | |
| -46 | -52 | | | | | | | | | | | | | | | |
| -44 | -47 | | | | | | | | | | | | | | | |
| -42 | -42 | | | | | | | | | | | | | | | |
| -40 | -36 | -47 | -43 | -49 | -20 | -50 | 5 | 86 | 76 | 16 | 26 | 40 | 22 | 60 | 30 | 72 |
| -38 | -30 | -41 | -37 | -43 | -12 | -45 | 15 | 95 | 93 | 26 | 39 | 53 | 34 | 73 | 42 | 81 |
| -36 | -23 | -35 | -30 | -37 | -4 | -38 | 26 | 105 | 111 | 37 | 52 | 67 | 46 | 88 | 54 | 88 |
| -34 | -16 | -28 | -24 | -31 | 4 | -32 | 38 | 116 | 130 | 49 | 66 | 82 | 60 | 104 | 68 | 99 |
| -32 | -8 | -21 | -16 | -23 | 14 | -25 | 50 | 127 | 150 | 61 | 81 | 98 | 74 | 118 | 82 | 108 |
| -30 | 0 | -14 | -9 | -16 | 24 | -17 | 63 | 139 | 172 | 74 | 97 | 114 | 89 | 138 | 98 | 120 |
| -28 | 9 | -5 | 0 | -7 | 34 | -9 | 78 | 152 | 195 | 88 | 114 | 132 | 105 | 157 | 114 | 133 |
| -26 | 19 | 3 | 9 | 2 | 45 | 1 | 93 | 167 | 219 | 103 | 133 | 151 | 123 | 178 | 132 | 144 |
| -24 | 29 | 14 | 19 | 11 | 57 | 10 | 109 | 182 | 245 | 119 | 152 | 171 | 141 | 199 | 150 | 160 |
| -22 | 39 | 26 | 29 | 21 | 70 | 21 | 126 | 198 | 273 | 135 | 173 | 193 | 161 | 220 | 170 | 172 |
| -20 | 51 | 39 | 40 | 33 | 84 | 32 | 145 | 215 | 303 | 153 | 195 | 216 | 181 | 243 | 191 | 190 |
| -18 | 63 | 49 | 52 | 44 | 98 | 44 | 164 | 234 | 334 | 171 | 219 | 240 | 203 | 267 | 213 | 210 |
| -16 | 76 | 59 | 65 | 57 | 114 | 56 | 185 | 253 | 367 | 191 | 243 | 265 | 227 | 295 | 236 | 225 |
| -14 | 89 | 72 | 78 | 71 | 130 | 70 | 207 | 274 | 402 | 211 | 270 | 292 | 251 | 320 | 261 | 248 |
| -12 | 104 | 86 | 92 | 85 | 147 | 84 | 230 | 297 | 438 | 233 | 297 | 320 | 277 | 348 | 287 | 265 |
| -10 | 119 | 101 | 107 | 100 | 165 | 100 | 254 | 320 | 477 | 256 | 326 | 350 | 305 | 382 | 314 | 291 |
| -8 | 135 | 118 | 123 | 117 | 184 | 116 | 280 | 345 | 518 | 280 | 357 | 382 | 334 | 412 | 343 | 318 |
| -6 | 152 | 135 | 140 | 134 | 204 | 134 | 307 | 372 | 561 | 305 | 390 | 415 | 364 | 446 | 373 | 340 |
| -4 | 170 | 153 | 158 | 152 | 226 | 152 | 336 | 400 | 607 | 332 | 424 | 450 | 396 | 483 | 405 | 370 |
| -2 | 189 | 172 | 177 | 172 | 248 | 172 | 366 | 430 | 654 | 360 | 460 | 486 | 430 | 520 | 438 | 395 |
| 0 | 208 | 192 | 197 | 192 | 272 | 192 | 397 | 461 | 704 | 389 | 498 | 525 | 465 | 560 | 473 | 429 |
| 2 | 229 | 211 | 217 | 214 | 297 | 215 | 431 | 494 | 757 | 420 | 537 | 565 | 502 | 603 | 510 | 466 |
| 4 | 251 | 229 | 240 | 237 | 323 | 238 | 466 | 529 | 812 | 452 | 579 | 608 | 541 | 644 | 548 | 496 |
| 6 | 274 | 253 | 263 | 262 | 350 | 262 | 502 | 566 | 869 | 485 | 623 | 652 | 582 | 689 | 588 | 536 |
| 8 | 298 | 283 | 287 | 287 | 379 | 288 | 540 | 604 | 930 | 520 | 669 | 698 | 625 | 732 | 630 | 569 |
| 10 | 323 | 313 | 313 | 314 | 409 | 316 | 581 | 645 | 993 | 557 | 716 | 747 | 670 | 783 | 673 | 615 |
| 12 | 349 | 342 | 340 | 342 | 441 | 344 | 622 | 688 | 1059 | 595 | 766 | 798 | 716 | 831 | 718 | 663 |
| 14 | 380 | 372 | 368 | 372 | 474 | 375 | 666 | 732 | 1128 | 635 | 819 | 851 | 765 | 886 | 766 | 702 |
| 16 | 406 | 403 | 397 | 404 | 508 | 406 | 712 | 779 | 1200 | 676 | 873 | 906 | 816 | 942 | 815 | 756 |
| 18 | 436 | 436 | 428 | 437 | 544 | 440 | 760 | 828 | 1275 | 719 | 929 | 964 | 869 | 998 | 866 | 798 |
| 20 | 467 | 469 | 461 | 471 | 582 | 470 | 810 | 880 | 1353 | 764 | 989 | 1024 | 920 | 1057 | 920 | 857 |
| 22 | 500 | 507 | 495 | 507 | 621 | 508 | 862 | 934 | 1435 | 811 | 1049 | 1087 | 980 | 1113 | 975 | 920 |
| 24 | 534 | 544 | 530 | 545 | 662 | 557 | 916 | 990 | 1520 | 859 | 1119 | 1152 | 1040 | 1179 | 1033 | 969 |
| 26 | 569 | 584 | 567 | 585 | 705 | 595 | 972 | 1049 | 1608 | 910 | 1179 | 1221 | 1100 | 1244 | 1093 | 1038 |
| 28 | 606 | 626 | 605 | 626 | 750 | 623 | 1031 | 1110 | 1701 | 962 | 1249 | 1291 | 1170 | 1313 | 1155 | 1091 |
| 30 | 645 | 668 | 645 | 670 | 796 | 651 | 1092 | 1175 | 1797 | 1016 | 1329 | 1365 | 1240 | 1388 | 1219 | 1167 |
| 32 | 685 | 715 | 687 | 715 | 844 | 698 | 1155 | 1242 | 1896 | 1073 | 1399 | 1442 | 1310 | 1462 | 1286 | 1245 |
| 34 | 726 | 761 | 730 | 762 | 895 | 746 | 1221 | 1311 | 2000 | 1131 | 1479 | 1521 | 1380 | 1540 | 1355 | 1307 |
| 36 | 769 | 811 | 775 | 811 | 947 | 792 | 1289 | 1384 | 2108 | 1192 | 1559 | 1604 | 1460 | 1620 | 1426 | 1393 |
| 38 | 814 | 863 | 822 | 863 | 1001 | 836 | 1360 | 1460 | 2220 | 1254 | 1639 | 1689 | 1530 | 1700 | 1500 | 1461 |
| 40 | 860 | 915 | 871 | 920 | 1057 | 880 | 1433 | 1539 | 2336 | 1319 | 1729 | 1778 | 1610 | 1784 | 1577 | 1554 |
| 42 | 908 | 972 | 922 | 970 | 1115 | 927 | 1509 | 1621 | 2456 | 1386 | 1819 | 1870 | 1700 | 1872 | 1656 | 1653 |
| 44 | 958 | 1029 | 974 | 1030 | 1176 | 977 | 1588 | 1707 | 2581 | 1455 | 1909 | 1966 | 1790 | 1964 | 1738 | 1729 |
| 46 | 1010 | 1090 | 1029 | 1090 | 1238 | 1026 | 1670 | 1796 | 2710 | 1527 | 2009 | 2064 | 1880 | 2057 | 1823 | 1835 |
| 48 | 1064 | 1153 | 1085 | 1150 | 1303 | 1078 | 1754 | 1888 | 2844 | 1601 | 2109 | 2167 | 1970 | 2151 | 1911 | 1918 |
| 50 | 1119 | 1217 | 1144 | 1220 | 1370 | 1130 | 1842 | 1985 | 2983 | 1677 | 2209 | 2273 | 2060 | 2250 | 2001 | 2033 |
| 52 | 1176 | 1287 | 1204 | 1290 | 1440 | 1193 | 1932 | 2085 | 3126 | 1756 | 2319 | 2382 | 2160 | 2358 | 2095 | |
| 54 | 1235 | 1356 | 1267 | 1360 | 1512 | 1249 | 2026 | 2188 | 3274 | 1837 | 2429 | 2496 | 2270 | 2464 | 2192 | |
| 56 | 1297 | 1429 | 1331 | 1430 | 1586 | 1312 | 2123 | 2296 | 3428 | 1921 | 2549 | 2613 | 2370 | 2569 | 2291 | |
| 58 | 1360 | 1505 | 1398 | 1500 | 1663 | 1381 | 2223 | 2408 | 3586 | 2007 | 2659 | 2734 | 2480 | 2682 | 2395 | |
| 60 | 1425 | 1581 | 1468 | 1580 | 1742 | 1450 | 2326 | 2524 | 3749 | 2095 | 2789 | 2859 | 2590 | 2795 | 2501 | |
| 62 | | 1662 | | | | | 2422 | 2752 | 3917 | | 2901 | 2978 | | | | |
| 64 | | 1746 | | | | | 2532 | 2873 | 4090 | | 3032 | 3114 | | | | |
| 66 | | 1833 | | | | | 2646 | | 4267 | | | 3255 | | | | |
| 68 | | 1923 | | | | | 2763 | | 4448 | | | 2402 | | | | |
| 70 | | 2016 | | | | | 2884 | | 4631 | | | 3554 | | | | |

Conversion Factors

Heat Flow

Btu/hr x 0.252 = kcal/hr
 Btu/hr x 0.293 = watts
 watts x 0.86 = kcal/hr
 watts x 3.4129 = Btu/hr
 watts x 0.000284 = ton (refr)
 watts x 0.00133 = HP
 kcal/hr x 1.163 = watts
 kcal/hr x 3.97 = Bru/hr
 HP x 746 = watts
 ton (refr) x 3517 = watts

Volume Flow

cfm x 0.472 = l/s
 fpm x 0.00508 = m/s
 imp. gal/min x 0.0758 = l/s
 U.S. gal/min x 0.0631 = l/s

Volume

ft³ x 0.02832 = m³

Temperature

°C = (°F - 32) ÷ 1.8
 °F = (°C x 1.8) + 32

Velocity

fps x 0.3048 = m/s
 fpm x 0.00508 = m/s

Pressure

kPa ÷ 6.89 = psi
 inch Hg x 3.39 = kPa
 inch H₂O x 0.249 = kPa
 mm Hg (1 torr) x 0.133 = kPa

