

| Temp<br>(°F) | R-22                                        | R-410A                               |                             | R-32                                        | R-454B                                      |                             |
|--------------|---------------------------------------------|--------------------------------------|-----------------------------|---------------------------------------------|---------------------------------------------|-----------------------------|
|              | A1                                          | A1                                   |                             | A2L                                         | A2L                                         |                             |
|              | Pure/single<br>component:<br>(100%<br>R-22) | Blend:<br>R-32 (50%),<br>R-125 (50%) |                             | Pure/single<br>component:<br>(100%<br>R-32) | Blend:<br>R-32 (68.9%),<br>R-1234yf (31.1%) |                             |
|              | Pressure<br>(psig)                          | Liquid<br>Pressure<br>(psig)         | Vapor<br>Pressure<br>(psig) | Pressure<br>(psig)                          | Liquid<br>Pressure<br>(psig)                | Vapor<br>Pressure<br>(psig) |
| -38°F        | 1.40                                        | 12.10                                | 12.00                       | 12.40                                       | 11.20                                       | 10.00                       |
| -36°F        | 2.20                                        | 13.40                                | 13.30                       | 13.70                                       | 12.50                                       | 11.20                       |
| -34°F        | 3.10                                        | 14.80                                | 14.70                       | 15.20                                       | 13.80                                       | 12.50                       |
| -32°F        | 4.00                                        | 16.30                                | 16.20                       | 16.60                                       | 15.30                                       | 13.90                       |
| -30°F        | 4.90                                        | 17.80                                | 17.70                       | 18.20                                       | 16.70                                       | 15.30                       |
| -28°F        | 5.90                                        | 19.40                                | 19.30                       | 19.80                                       | 18.20                                       | 16.70                       |
| -26°F        | 6.90                                        | 21.00                                | 20.90                       | 21.40                                       | 19.80                                       | 18.20                       |
| -24°F        | 8.00                                        | 22.70                                | 22.60                       | 23.20                                       | 21.40                                       | 19.80                       |
| -22°F        | 9.10                                        | 24.50                                | 24.40                       | 25.00                                       | 23.10                                       | 21.40                       |
| -20°F        | 10.20                                       | 26.30                                | 26.20                       | 26.80                                       | 24.90                                       | 23.00                       |
| -18°F        | 11.40                                       | 28.20                                | 28.10                       | 28.70                                       | 26.70                                       | 24.80                       |
| -16°F        | 12.60                                       | 30.20                                | 30.00                       | 30.70                                       | 28.60                                       | 26.60                       |
| -14°F        | 13.90                                       | 32.20                                | 32.00                       | 32.80                                       | 30.50                                       | 28.40                       |
| -12°F        | 15.20                                       | 34.30                                | 34.10                       | 34.90                                       | 32.50                                       | 30.30                       |
| -10°F        | 16.50                                       | 36.50                                | 36.30                       | 37.10                                       | 34.60                                       | 32.30                       |
| -8°F         | 17.90                                       | 38.70                                | 38.50                       | 39.40                                       | 36.70                                       | 34.40                       |
| -6°F         | 19.40                                       | 41.00                                | 40.80                       | 41.70                                       | 39.00                                       | 36.50                       |
| -4°F         | 20.90                                       | 43.40                                | 43.20                       | 44.10                                       | 41.20                                       | 38.70                       |
| -2°F         | 22.40                                       | 45.90                                | 45.70                       | 46.70                                       | 43.60                                       | 40.90                       |
| 0°F          | 24.00                                       | 48.40                                | 48.20                       | 49.20                                       | 46.10                                       | 43.30                       |
| 2°F          | 25.70                                       | 51.10                                | 50.80                       | 51.90                                       | 48.60                                       | 45.70                       |
| 4°F          | 27.40                                       | 53.80                                | 53.50                       | 54.70                                       | 51.20                                       | 48.10                       |
| 6°F          | 29.20                                       | 56.60                                | 56.30                       | 57.50                                       | 53.80                                       | 50.70                       |
| 8°F          | 31.00                                       | 59.50                                | 59.20                       | 60.50                                       | 56.60                                       | 53.30                       |
| 10°F         | 32.80                                       | 62.40                                | 62.20                       | 63.50                                       | 59.50                                       | 56.10                       |
| 12°F         | 34.80                                       | 65.50                                | 65.20                       | 66.60                                       | 62.40                                       | 58.90                       |
| 14°F         | 36.80                                       | 68.60                                | 68.40                       | 69.80                                       | 65.40                                       | 61.80                       |
| 16°F         | 38.80                                       | 71.90                                | 71.60                       | 73.10                                       | 68.50                                       | 64.70                       |
| 18°F         | 40.90                                       | 75.20                                | 74.90                       | 76.50                                       | 71.70                                       | 67.80                       |
| 20°F         | 43.10                                       | 78.70                                | 78.40                       | 80.00                                       | 75.00                                       | 70.90                       |
| 22°F         | 45.30                                       | 82.20                                | 81.90                       | 83.60                                       | 78.40                                       | 74.20                       |
| 24°F         | 47.60                                       | 85.80                                | 85.50                       | 87.30                                       | 81.80                                       | 77.50                       |
| 26°F         | 50.00                                       | 89.60                                | 89.20                       | 91.10                                       | 85.40                                       | 80.90                       |
| 28°F         | 52.40                                       | 93.40                                | 93.10                       | 95.10                                       | 89.10                                       | 84.40                       |
| 30°F         | 55.00                                       | 97.40                                | 97.00                       | 99.10                                       | 92.90                                       | 88.10                       |
| 32°F         | 57.50                                       | 101.40                               | 101.10                      | 103.20                                      | 96.80                                       | 91.80                       |
| 34°F         | 60.20                                       | 105.60                               | 105.20                      | 107.50                                      | 100.70                                      | 95.60                       |
| 36°F         | 62.90                                       | 109.90                               | 109.50                      | 111.80                                      | 104.80                                      | 99.50                       |
| 38°F         | 65.70                                       | 114.30                               | 113.90                      | 116.30                                      | 109.00                                      | 103.60                      |
| 40°F         | 68.60                                       | 118.80                               | 118.40                      | 121.00                                      | 113.30                                      | 107.70                      |

- Working with all refrigerants involves a degree of risk. It is recommended to use best practices and always adhere to safety protocols before and during when working with refrigerants.
- DO NOT MIX REFRIGERANTS
- Per current US EPA SNAP approvals, A2L refrigerants **can only** be used in new equipment and **CANNOT** be used to retrofit a different refrigerant into an existing system. Always use the same refrigerant marked on the nameplate.
- This document does not provide all data needed for a full refrigerant evaluation.

| Temp<br>(°F) | R-22                                        | R-410A                               |                             | R-32                                        | R-454B                                      |                             |
|--------------|---------------------------------------------|--------------------------------------|-----------------------------|---------------------------------------------|---------------------------------------------|-----------------------------|
|              | A1                                          | A1                                   |                             | A2L                                         | A2L                                         |                             |
|              | Pure/single<br>component:<br>(100%<br>R-22) | Blend:<br>R-32 (50%),<br>R-125 (50%) |                             | Pure/single<br>component:<br>(100%<br>R-32) | Blend:<br>R-32 (68.9%),<br>R-1234yf (31.1%) |                             |
|              | Pressure<br>(psig)                          | Liquid<br>Pressure<br>(psig)         | Vapor<br>Pressure<br>(psig) | Pressure<br>(psig)                          | Liquid<br>Pressure<br>(psig)                | Vapor<br>Pressure<br>(psig) |
| 42°F         | 71.50                                       | 123.40                               | 123.00                      | 125.70                                      | 117.80                                      | 112.00                      |
| 44°F         | 74.50                                       | 128.20                               | 127.70                      | 130.50                                      | 122.30                                      | 116.30                      |
| 46°F         | 77.60                                       | 133.00                               | 132.60                      | 135.50                                      | 126.90                                      | 120.80                      |
| 48°F         | 80.80                                       | 138.00                               | 137.50                      | 140.60                                      | 131.70                                      | 125.40                      |
| 50°F         | 84.10                                       | 143.20                               | 142.60                      | 145.80                                      | 136.60                                      | 130.10                      |
| 52°F         | 87.40                                       | 148.40                               | 147.90                      | 151.20                                      | 141.60                                      | 134.90                      |
| 54°F         | 90.80                                       | 153.80                               | 153.20                      | 156.70                                      | 146.70                                      | 139.80                      |
| 56°F         | 94.40                                       | 159.30                               | 158.70                      | 162.40                                      | 152.00                                      | 144.90                      |
| 58°F         | 98.00                                       | 164.90                               | 164.40                      | 168.10                                      | 157.40                                      | 150.10                      |
| 60°F         | 101.60                                      | 170.70                               | 170.10                      | 174.00                                      | 162.90                                      | 155.40                      |
| 62°F         | 105.40                                      | 176.70                               | 176.00                      | 180.10                                      | 168.60                                      | 160.80                      |
| 64°F         | 109.30                                      | 182.70                               | 182.10                      | 186.30                                      | 174.30                                      | 166.40                      |
| 66°F         | 113.20                                      | 188.90                               | 188.30                      | 192.70                                      | 180.20                                      | 172.10                      |
| 68°F         | 117.30                                      | 195.30                               | 194.60                      | 199.20                                      | 186.30                                      | 178.00                      |
| 70°F         | 121.40                                      | 201.80                               | 201.10                      | 205.80                                      | 192.50                                      | 184.00                      |
| 72°F         | 125.70                                      | 208.40                               | 207.70                      | 212.60                                      | 198.80                                      | 190.10                      |
| 74°F         | 130.00                                      | 215.20                               | 214.50                      | 219.60                                      | 205.30                                      | 196.40                      |
| 76°F         | 134.50                                      | 222.20                               | 221.40                      | 226.70                                      | 211.90                                      | 202.80                      |
| 78°F         | 139.00                                      | 229.30                               | 228.50                      | 234.00                                      | 218.70                                      | 209.30                      |
| 80°F         | 143.60                                      | 236.50                               | 235.80                      | 241.50                                      | 225.60                                      | 216.10                      |
| 82°F         | 148.40                                      | 244.00                               | 243.20                      | 249.10                                      | 232.70                                      | 222.90                      |
| 84°F         | 153.20                                      | 251.60                               | 250.70                      | 256.90                                      | 239.90                                      | 229.90                      |
| 86°F         | 158.20                                      | 259.30                               | 258.50                      | 264.90                                      | 247.30                                      | 237.10                      |
| 88°F         | 163.20                                      | 267.30                               | 266.40                      | 273.00                                      | 254.80                                      | 244.40                      |
| 90°F         | 168.40                                      | 275.40                               | 274.50                      | 281.30                                      | 262.50                                      | 251.90                      |
| 92°F         | 173.70                                      | 283.60                               | 282.70                      | 289.80                                      | 270.40                                      | 259.60                      |
| 94°F         | 179.10                                      | 292.10                               | 291.20                      | 298.50                                      | 278.40                                      | 267.40                      |
| 96°F         | 184.60                                      | 300.70                               | 299.80                      | 307.40                                      | 286.60                                      | 275.40                      |
| 98°F         | 190.20                                      | 309.50                               | 308.60                      | 316.40                                      | 295.00                                      | 283.60                      |
| 100°F        | 195.90                                      | 318.60                               | 317.60                      | 325.70                                      | 303.60                                      | 291.60                      |
| 105°F        | 210.80                                      | 341.90                               | 340.90                      | 349.60                                      | 325.70                                      | 313.60                      |
| 110°F        | 226.40                                      | 366.40                               | 365.40                      | 374.90                                      | 348.90                                      | 336.40                      |
| 115°F        | 242.80                                      | 392.30                               | 391.20                      | 401.40                                      | 373.40                                      | 360.50                      |
| 120°F        | 260.00                                      | 419.40                               | 418.30                      | 429.30                                      | 399.10                                      | 385.80                      |
| 125°F        | 278.00                                      | 447.90                               | 446.80                      | 458.70                                      | 426.00                                      | 412.40                      |
| 130°F        | 296.90                                      | 477.90                               | 476.80                      | 489.50                                      | 454.20                                      | 440.50                      |
| 135°F        | 316.70                                      | 509.40                               | 508.30                      | 521.80                                      | 483.80                                      | 470.00                      |
| 140°F        | 337.40                                      | 542.50                               | 541.40                      | 555.80                                      | 514.90                                      | 501.00                      |
| 145°F        | 359.00                                      | 577.30                               | 576.30                      | 591.40                                      | 547.30                                      | 533.70                      |
| 150°F        | 381.70                                      | 613.90                               | 613.00                      | 628.80                                      | 581.40                                      | 568.20                      |

The pressure temperature chart values were provided by:  
Weitron ([www.weitron.com](http://www.weitron.com))



Learn more about R-32 at  
[www.R32REASONS.com](http://www.R32REASONS.com)