

PRESSURE (PSIG)* @ 5,000 ft.								
Sat. Temp (°F)	R-22	R-32	R-123	R-134a	R-401A Liquid Pressure	R-401A Vapor Pressure	R-401B Liquid Pressure	R-401B Vapor Pressure
-50	1.1	7.6	24.2	13.8	8.6	13.0	7.3	11.9
-45	1.1	10.4	24.1	11.9	6.1	11.0	4.6	9.8
-40	3.0	13.5	23.9	9.8	3.4	8.9	1.7	7.4
-35	5.1	16.9	23.7	7.5	0.4	6.4	0.7	4.8
-30	7.4	20.7	23.4	4.9	1.5	3.7	2.5	1.8
-25	9.9	24.8	23.2	2.0	3.3	0.7	4.4	0.7
-20	12.6	29.3	22.8	0.6	5.3	1.3	6.6	2.5
-15	15.7	34.2	22.5	2.4	7.5	3.2	8.9	4.5
-10	19.0	39.6	22.0	4.4	9.9	5.2	11.5	6.6
-5	22.6	45.4	21.5	6.5	12.5	7.4	14.3	9.0
0	26.5	51.7	21.0	8.9	15.4	9.9	17.3	11.6
5	30.7	58.6	20.3	11.5	18.5	12.5	20.7	14.5
10	35.3	66.0	19.6	14.4	21.9	15.4	24.3	17.6
15	40.2	73.9	18.8	17.5	25.6	18.6	28.1	21.0
20	45.5	82.5	17.9	20.9	29.5	22.1	32.3	24.7
25	51.3	91.7	16.9	24.5	33.8	25.8	36.8	28.7
30	57.4	101.6	15.8	28.5	38.4	29.9	41.7	33.0
35	64.0	112.1	14.6	32.8	43.3	34.2	46.9	37.6
40	71.0	123.4	13.2	37.5	48.6	38.9	52.5	42.6
45	78.5	135.5	11.7	42.5	54.3	44.0	58.5	48.0
50	86.5	148.3	10.0	47.9	60.3	49.4	64.9	53.8
55	95.0	162.0	8.2	53.7	66.8	55.2	71.7	60.0
60	104.1	176.5	6.2	59.8	73.6	61.5	78.9	66.6
65	113.7	191.9	4.0	66.5	80.9	68.1	86.6	73.6
70	123.9	208.3	1.7	73.5	88.7	75.2	94.8	81.1
75	134.7	225.6	0.5	81.1	96.9	82.8	103.4	89.1
80	146.1	244.0	1.8	89.1	105.7	90.8	112.6	97.6
85	158.1	263.3	3.3	97.7	114.9	99.4	122.3	106.7
90	170.8	283.8	4.9	106.8	124.6	108.4	132.5	116.2
95	184.2	305.4	6.7	116.4	134.9	118.0	143.3	126.4
100	198.4	328.1	8.5	126.6	145.8	128.2	154.7	137.1
105	213.2	352.1	10.6	137.4	157.2	138.9	166.7	148.4
110	228.8	377.4	12.7	148.8	169.2	150.3	179.3	160.4
115	245.2	403.9	15.0	160.9	181.9	162.3	192.6	173.0
120	262.4	431.8	17.5	173.6	195.1	174.9	206.5	186.3
125	280.4	461.1	20.2	187.0	209.1	188.2	221.1	200.3
130	299.3	491.9	23.0	201.2	223.7	202.2	236.4	215.0
135	319.1	524.3	26.0	216.0	238.9	216.9	252.4	230.5
140	339.8	558.2	29.2	231.7	255.0	232.4	269.2	246.8
145	361.5	593.9	32.6	248.1	271.7	248.6	286.7	263.8
150	384.1	631.3	36.2	265.4	289.2	265.6	305.0	281.7

PRESSURE (PSIG)* @ 5,000 ft.								
Sat. Temp (°F)	R-402A Liquid Pressure	R-402B Vapor Pressure	R-404A Liquid Pressure	R-407A Liquid Pressure	R-407A Vapor Pressure	R-407C Liquid Pressure	R-407C Vapor Pressure	R-408A Liquid Pressure
-50	5.0	3.5	2.9	2.0	4.0	1.1	6.0	1.8
-45	7.3	5.6	5.0	4.1	0.7	3.0	3.0	3.7
-40	9.9	8.0	7.4	6.4	1.4	+5.2	0.2	5.9
-35	12.7	10.6	9.9	8.9	3.5	7.5	2.0	8.3
-30	15.8	13.5	12.8	11.6	5.7	10.2	4.1	10.9
-25	19.2	16.7	15.9	14.7	8.2	13.0	6.4	13.8
-20	22.9	20.1	19.3	18.0	10.9	16.2	8.9	16.9
-15	26.9	23.8	23.0	21.7	14.0	19.6	11.7	20.4
-10	31.3	27.9	27.0	25.6	17.3	23.4	14.8	24.1
-5	36.0	32.3	31.4	30.0	21.0	27.5	18.2	28.2
0	41.1	37.1	36.1	34.7	24.9	31.9	21.9	32.6
5	46.7	42.2	41.2	39.8	29.3	36.8	25.9	37.3
10	52.6	47.7	46.7	45.3	34.0	42.0	30.3	42.4
15	59.0	53.7	52.7	51.2	39.2	47.6	35.1	48.0
20	65.8	60.1	59.0	57.6	44.8	53.7	40.3	53.9
25	73.2	66.9	65.9	64.4	50.8	60.2	45.9	60.3
30	81.0	74.3	73.2	71.8	57.3	67.2	52.0	67.1
35	89.4	82.1	81.0	79.6	64.3	74.7	58.5	74.4
40	98.3	90.4	89.3	88.1	71.8	82.7	65.6	82.1
45	107.8	99.3	98.2	97.0	79.9	91.2	73.2	90.4
50	117.8	108.8	107.7	106.6	88.5	100.4	81.3	99.2
55	128.5	118.8	117.8	116.8	97.8	110.1	90.0	108.6
60	139.9	129.4	128.4	127.6	107.7	120.4	99.2	118.6
65	151.9	140.7	139.8	139.1	118.2	131.3	109.2	129.1
70	164.6	152.6	151.8	151.3	129.4	143.0	119.7	140.3
75	178.0	165.1	164.4	164.1	141.3	155.3	131.0	152.1
80	192.1	178.4	177.8	177.7	154.0	168.3	143.0	164.5
85	207.0	192.4	192.0	192.1	167.5	182.0	155.7	177.7
90	222.7	207.1	206.9	207.3	181.8	196.5	169.1	191.6
95	239.3	222.7	222.6	223.3	196.9	211.8	183.4	206.2
100	256.6	239.0	239.2	240.1	212.9	227.9	198.6	221.6
105	274.9	256.1	256.6	257.8	229.8	244.9	214.6	237.8
110	294.1	274.1	275.0	276.4	247.7	262.7	231.5	254.8
115	314.2	293.0	294.2	295.9	266.5	281.4	249.4	272.6
120	335.3	312.7	314.5	316.4	286.4	301.0	268.2	291.4
125	357.4	333.5	335.8	337.9	307.4	321.6	288.1	311.0
130	380.6	355.2	358.1	360.4	329.6	343.2	309.1	331.6
135	404.8	377.9	381.5	383.9	352.9	365.8	331.2	353.2
140	430.3	401.6	406.2	408.6	377.5	389.4	354.5	375.7
145	456.9	426.5	432.0	434.4	403.4	414.1	379.1	399.4
150	484.8	452.4	459.2	461.3	430.8	439.9	404.9	424.1

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# Pressure Temperature Chart High Elevation (5,000 ft.)

**FORANE®**  
REFRIGERANTS

**ARKEMA**

## Forane® Refrigerant Cylinder Identification

TYPE	COLOR CODE	SIZE IN LBS. (CONTAINER TYPE)
R-22 HCFC	Light Green	30 (A), 50 (A), 125 (B), 1,000 (D), 1,750 (E)
R-32 HCFC	Grey	20 (A), 800 (D)
R-123 HCFC	Light Blue Grey	100 (C), 200 (C)
R-134a HFC	Light Blue	30 (A), 125 (B), 1,000 (D), 1,750 (E)
R-401A HCFC	Pinkish Red	20 (A), 30 (A), 125 (B)
R-401B HCFC	Mustard	30 (A), 125 (B)
R-402A HCFC	Sand	20 (A), 27 (A), 110 (B)
R-402B HCFC	Olive	13 (A)
R-404A HFC	Orange	20 (A), 24 (A), 100 (B), 800 (D), 1,300 (E)
R-407A HFC	Lime Green	20 (A), 25 (A), 115 (B)
R-407C HFC	Brown	25 (A), 115 (B), 950 (D), 1,600 (E)
R-408A HCFC	Medium Purple	20 (A), 24 (A), 100 (B), 1,300 (E)
R-409A HFC	Tan	20 (A), 30 (A), 125 (B), 1,800 (E)
R-410A HFC	Rose	20 (A), 25 (A), 100 (B), 850 (D), 1,350 (E)
R-427A HFC	Green	20 (A), 25 (A) 110 (B)
R-507A HFC	Teal	20 (A), 25 (A), 100 (B), 800 (D), 1,400 (E)

Container types drawings not to scale.



13/20/24/  
25/27/30/  
50 lbs.  
(A)



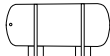
100/110/115/  
125/145 lbs.  
(B)



100/200 lbs.  
(C)



800/850/  
950/1,000 lbs.  
(D)



1,300/1,350/1,400/  
1,600/1,750/1,800/  
2,000 lbs.  
(E)

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**ARKEMA**

## PRESSURE (PSIG)\* @ 5,000

Sat. Temp (°F)	R-409A Liquid Pressure	R-409A Vapor Pressure	R-410A Vapor Pressure	R-427A Liquid Pressure	R-427A Vapor Pressure	R-507A
-50	<b>7.2</b>	<b>13.7</b>	<b>7.4</b>	<b>0.7</b>	<b>6.4</b>	<b>3.3</b>
-45	<b>4.7</b>	<b>11.9</b>	<b>10.1</b>	<b>2.6</b>	<b>3.5</b>	<b>5.5</b>
-40	<b>1.8</b>	<b>9.8</b>	<b>13.2</b>	<b>4.6</b>	<b>0.2</b>	<b>7.9</b>
-35	<b>0.7</b>	<b>7.5</b>	<b>16.6</b>	<b>6.9</b>	<b>1.7</b>	<b>10.5</b>
-30	<b>2.4</b>	<b>4.9</b>	<b>20.3</b>	<b>9.4</b>	<b>3.7</b>	<b>13.4</b>
-25	<b>4.4</b>	<b>2.0</b>	<b>24.3</b>	<b>12.2</b>	<b>6.0</b>	<b>16.6</b>
-20	<b>6.5</b>	<b>0.6</b>	<b>28.8</b>	<b>15.2</b>	<b>8.4</b>	<b>20.0</b>
-15	<b>8.8</b>	<b>2.3</b>	<b>33.6</b>	<b>18.5</b>	<b>11.2</b>	<b>23.8</b>
-10	<b>11.3</b>	<b>4.3</b>	<b>38.9</b>	<b>22.1</b>	<b>14.2</b>	<b>27.9</b>
-5	<b>14.0</b>	<b>6.4</b>	<b>44.6</b>	<b>26.1</b>	<b>17.5</b>	<b>32.4</b>
0	<b>17.0</b>	<b>8.7</b>	<b>50.9</b>	<b>30.4</b>	<b>21.1</b>	<b>37.3</b>
5	<b>20.3</b>	<b>11.3</b>	<b>57.6</b>	<b>35.0</b>	<b>25.0</b>	<b>42.5</b>
10	<b>23.8</b>	<b>14.1</b>	<b>64.9</b>	<b>40.0</b>	<b>29.3</b>	<b>48.1</b>
15	<b>27.6</b>	<b>17.1</b>	<b>72.7</b>	<b>45.4</b>	<b>34.0</b>	<b>54.2</b>
20	<b>31.7</b>	<b>20.4</b>	<b>81.1</b>	<b>51.2</b>	<b>39.0</b>	<b>60.7</b>
25	<b>36.1</b>	<b>24.0</b>	<b>90.1</b>	<b>57.5</b>	<b>44.5</b>	<b>67.7</b>
30	<b>40.8</b>	<b>27.9</b>	<b>99.8</b>	<b>64.2</b>	<b>50.4</b>	<b>75.2</b>
35	<b>45.9</b>	<b>32.1</b>	<b>110.2</b>	<b>71.4</b>	<b>56.8</b>	<b>83.2</b>
40	<b>51.3</b>	<b>36.6</b>	<b>121.2</b>	<b>79.0</b>	<b>63.6</b>	<b>91.7</b>
45	<b>57.1</b>	<b>41.5</b>	<b>133.0</b>	<b>87.2</b>	<b>71.0</b>	<b>100.8</b>
50	<b>63.3</b>	<b>46.7</b>	<b>145.6</b>	<b>96.0</b>	<b>78.8</b>	<b>110.4</b>
55	<b>69.9</b>	<b>52.3</b>	<b>159.0</b>	<b>105.3</b>	<b>87.3</b>	<b>120.7</b>
60	<b>76.9</b>	<b>58.3</b>	<b>173.2</b>	<b>115.2</b>	<b>96.3</b>	<b>131.6</b>
65	<b>84.3</b>	<b>64.7</b>	<b>188.2</b>	<b>125.7</b>	<b>105.9</b>	<b>143.2</b>
70	<b>92.2</b>	<b>71.6</b>	<b>204.2</b>	<b>136.8</b>	<b>116.1</b>	<b>155.4</b>
75	<b>100.6</b>	<b>78.9</b>	<b>221.1</b>	<b>148.6</b>	<b>127.0</b>	<b>168.4</b>
80	<b>109.4</b>	<b>86.6</b>	<b>239.0</b>	<b>161.1</b>	<b>138.6</b>	<b>182.1</b>
85	<b>118.8</b>	<b>94.9</b>	<b>257.9</b>	<b>174.2</b>	<b>150.9</b>	<b>196.5</b>
90	<b>128.7</b>	<b>103.70</b>	<b>277.8</b>	<b>188.1</b>	<b>163.9</b>	<b>211.8</b>
95	<b>139.0</b>	<b>112.9</b>	<b>298.8</b>	<b>202.8</b>	<b>177.7</b>	<b>227.8</b>
100	<b>150.0</b>	<b>122.8</b>	<b>321.0</b>	<b>218.2</b>	<b>192.3</b>	<b>244.7</b>
105	<b>161.5</b>	<b>133.2</b>	<b>344.3</b>	<b>234.4</b>	<b>207.8</b>	<b>262.5</b>
110	<b>173.6</b>	<b>144.2</b>	<b>368.9</b>	<b>251.5</b>	<b>224.1</b>	<b>281.3</b>
115	<b>186.3</b>	<b>155.8</b>	<b>394.7</b>	<b>269.4</b>	<b>241.4</b>	<b>301.0</b>
120	<b>199.6</b>	<b>168.0</b>	<b>421.8</b>	<b>288.2</b>	<b>259.6</b>	<b>321.6</b>
125	<b>213.6</b>	<b>180.9</b>	<b>450.4</b>	<b>307.9</b>	<b>278.8</b>	<b>343.4</b>
130	<b>228.2</b>	<b>194.5</b>	<b>480.4</b>	<b>328.6</b>	<b>299.0</b>	<b>366.2</b>
135	<b>243.5</b>	<b>208.7</b>	<b>511.9</b>	<b>350.2</b>	<b>320.3</b>	<b>390.2</b>
140	<b>259.4</b>	<b>223.8</b>	<b>545.0</b>	<b>372.9</b>	<b>342.7</b>	<b>415.4</b>
145	<b>276.1</b>	<b>239.5</b>	<b>579.70</b>	<b>396.6</b>	<b>366.4</b>	<b>441.9</b>
150	<b>293.5</b>	<b>256.1</b>	<b>616.3</b>	<b>421.3</b>	<b>391.3</b>	<b>469.9</b>

**Green Numerals in bold - Inches Hg Below 1ATM**

\*This data was generated using the NIST REFPROP Database (Lemmon, E.W., Huber, M.L., McLinden, M.O. NIST Standard Reference Database 23: Reference Fluid Thermodynamic and Transport Properties-REFPROP, Version 9.0, National Institute of Standards and Technology, Standard Reference Data Program, Gaithersburg, 2010)