

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	<i>1.1</i>	7.6	<i>24.2</i>	<i>13.8</i>	<i>8.6</i>	<i>13.0</i>	<i>7.3</i>	<i>11.9</i>
-45	1.1	10.4	<i>24.1</i>	<i>11.9</i>	<i>6.1</i>	<i>11.0</i>	<i>4.6</i>	<i>9.8</i>
-40	3.0	13.5	<i>23.9</i>	<i>9.8</i>	<i>3.4</i>	<i>8.9</i>	<i>1.7</i>	<i>7.4</i>
-35	5.1	16.9	<i>23.7</i>	<i>7.5</i>	<i>0.4</i>	<i>6.4</i>	0.7	<i>4.8</i>
-30	7.4	20.7	<i>23.4</i>	<i>4.9</i>	1.5	<i>3.7</i>	2.5	<i>1.8</i>
-25	9.9	24.8	<i>23.2</i>	<i>2.0</i>	3.3	<i>0.7</i>	4.4	0.7
-20	12.6	29.3	<i>22.8</i>	0.6	5.3	1.3	6.6	2.5
-15	15.7	34.2	<i>22.5</i>	2.4	7.5	3.2	8.9	4.5
-10	19.0	39.6	<i>22.0</i>	4.4	9.9	5.2	11.5	6.6
-5	22.6	45.4	<i>21.5</i>	6.5	12.5	7.4	14.3	9.0
0	26.5	51.7	<i>21.0</i>	8.9	15.4	9.9	17.3	11.6
5	30.7	58.6	<i>20.3</i>	11.5	18.5	12.5	20.7	14.5
10	35.3	66.0	<i>19.6</i>	14.4	21.9	15.4	24.3	17.6
15	40.2	73.9	<i>18.8</i>	17.5	25.6	18.6	28.1	21.0
20	45.5	82.5	<i>17.9</i>	20.9	29.5	22.1	32.3	24.7
25	51.3	91.7	<i>16.9</i>	24.5	33.8	25.8	36.8	28.7
30	57.4	101.6	<i>15.8</i>	28.5	38.4	29.9	41.7	33.0
35	64.0	112.1	<i>14.6</i>	32.8	43.3	34.2	46.9	37.6
40	71.0	123.4	<i>13.2</i>	37.5	48.6	38.9	52.5	42.6
45	78.5	135.5	<i>11.7</i>	42.5	54.3	44.0	58.5	48.0
50	86.5	148.3	<i>10.0</i>	47.9	60.3	49.4	64.9	53.8
55	95.0	162.0	<i>8.2</i>	53.7	66.8	55.2	71.7	60.0
60	104.1	176.5	<i>6.2</i>	59.8	73.6	61.5	78.9	66.6
65	113.7	191.9	<i>4.0</i>	66.5	80.9	68.1	86.6	73.6
70	123.9	208.3	<i>1.7</i>	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 Liquid 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	<i>4.0</i>	1.1	<i>6.0</i>	1.8
-45	7.3	5.6	5.0	4.1	<i>0.7</i>	3.0	<i>3.0</i>	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

Red Numerals (in bold and italics) - Inches Hg Below 1 ATM

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FORANE

REFRIGERANTS

BY ARKEMA



High Elevation (5,000 ft.)

Pressure Temperature Chart



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 Dark Teal	20 (A), 800 (B)
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	30 (A), 125 (B)
R-401B	HCFC Mustard	30 (A), 125 (B)
R-402A	HCFC Sand	27 (A), 110 (B)
R-402B	HCFC Olive	13 (A)
R-404A	HFC Orange	24 (A), 100 (B), 800 (D), 1,300 (E)
R-407A	HFC Lime Green	25 (A), 115 (B)
R-407C	HFC Brown	25 (A), 115 (B), 1,000 (D), 1,600 (E)
R-408A	HCFC Medium Purple	24 (A), 100 (B), 1,300 (E)
R-409A	HCFC Tan	30 (A), 125 (B), 1,800 (E)
R-410A	HFC Rose	25 (A), 100 (B), 850 (D), 1,350 (E)
R-427A	HFC Green	25 (A), 110 (B)
R-507A	HFC Teal	25 (A), 100 (B), 800 (D), 1,400 (E)



Container Types: Drawings not to scale

PRESSURE (PSIG) * @ 5,000 ft.

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

Red Numerals (in bold and italics) - Inches Hg Below 1 ATM

*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)

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