

PRESSURE (PSIG) *

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	6.1	5.2	29.2	18.7	13.5	17.9	12.2	16.8
-45	2.7	8.0	29.0	16.9	11.1	16.0	9.6	14.7
-40	0.6	11.0	28.9	14.8	8.4	13.8	6.7	12.4
-35	2.6	14.4	28.7	12.5	5.3	11.4	3.4	9.7
-30	4.9	18.2	28.4	9.8	2.0	8.7	0.1	6.8
-25	7.4	22.3	28.1	6.9	0.8	5.6	2.0	3.5
-20	10.2	26.8	27.8	3.7	2.9	2.2	4.1	0.1
-15	13.2	31.7	27.4	0.0	5.1	0.7	6.5	2.0
-10	16.5	37.1	27.0	1.9	7.5	2.8	9.1	4.2
-5	20.1	42.9	26.5	4.1	10.1	5.0	11.9	6.6
0	24.0	49.3	25.9	6.5	13.0	7.4	14.9	9.2
5	28.3	56.1	25.3	9.1	16.1	10.1	18.2	12.1
10	32.8	63.5	24.6	11.9	19.5	13.0	21.8	15.2
15	37.8	71.4	23.8	15.0	23.1	16.2	25.7	18.6
20	43.1	80.0	22.9	18.4	27.1	19.6	29.9	22.3
25	48.8	89.2	21.9	22.1	31.4	23.4	34.4	26.3
30	55.0	99.1	20.8	26.1	36.0	27.4	39.3	30.6
35	61.5	109.7	19.5	30.4	40.9	31.8	44.5	35.2
40	68.6	121.0	18.2	35.0	46.2	36.5	50.1	40.2
45	76.1	133.0	16.6	40.1	51.8	41.6	56.0	45.6
50	84.1	145.9	15.0	45.4	57.9	47.0	62.4	51.4
55	92.6	159.5	13.2	51.2	64.3	52.8	69.2	57.5
60	101.6	174.1	11.2	57.4	71.2	59.0	76.5	64.1
65	111.3	189.5	9.0	64.0	78.5	65.7	84.2	71.2
70	121.4	205.8	6.6	71.1	86.3	72.8	92.3	78.7
75	132.2	223.2	4.0	78.7	94.5	80.3	101.0	86.7
80	143.6	241.5	1.2	86.7	103.2	88.4	110.2	95.2
85	155.7	260.9	0.9	95.2	112.4	96.9	119.9	104.2
90	168.4	281.3	2.5	104.3	122.2	106.0	130.1	113.8
95	181.8	302.9	4.2	114.0	132.5	115.6	140.9	123.9
100	195.9	325.7	6.1	124.2	143.3	125.8	152.3	134.7
105	210.8	349.7	8.1	135.0	154.8	136.5	164.3	146.0
110	226.4	374.9	10.3	146.4	166.8	147.8	176.9	158.0
115	242.8	401.4	12.6	158.4	179.4	159.8	190.1	170.6
120	260.0	429.3	15.1	171.2	192.7	172.4	204.1	183.9
125	278.0	458.7	17.7	184.6	206.6	185.7	218.6	197.9
130	296.9	489.5	20.6	198.7	221.2	199.7	233.9	212.6
135	316.7	521.8	23.6	213.6	236.5	214.5	250.0	228.1
140	337.4	555.8	26.8	229.2	252.5	229.9	266.7	244.3
145	359.0	591.4	30.2	245.7	269.3	246.2	284.3	261.4
150	381.7	628.8	33.8	262.9	286.8	263.2	302.6	279.3

PRESSURE (PSIG) *

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	2.5	1.1	0.5	0.8	9.0	0.8	9.0	1.4
-45	4.9	3.2	2.6	1.7	5.7	1.7	5.7	1.3
-40	7.4	5.6	4.9	3.9	2.0	3.9	2.0	3.5
-35	10.3	8.2	7.5	6.4	1.0	6.4	1.0	5.8
-30	13.4	11.1	10.3	9.2	3.3	9.2	3.3	8.5
-25	16.8	14.2	13.4	12.2	5.8	12.2	5.8	11.3
-20	20.5	17.7	16.8	15.6	8.5	15.6	8.5	14.5
-15	24.5	21.4	20.5	19.2	11.5	19.2	11.5	17.9
-10	28.8	25.5	24.6	23.2	14.9	23.2	14.9	21.7
-5	33.6	29.9	28.9	27.5	18.5	27.5	18.5	25.7
0	38.7	34.6	33.7	32.2	22.5	32.2	22.5	30.1
5	44.2	39.8	38.8	37.3	26.9	37.3	26.9	34.9
10	50.2	45.3	44.3	42.8	31.6	42.8	31.6	40.0
15	56.5	51.3	50.2	48.7	36.7	48.7	36.7	45.5
20	63.4	57.7	56.6	55.1	42.3	55.1	42.3	51.5
25	70.7	64.5	63.4	62.0	48.3	62.0	48.3	57.8
30	78.6	71.8	70.7	69.3	54.8	69.3	54.8	64.6
35	86.9	79.7	78.6	77.2	61.8	77.2	61.8	71.9
40	95.8	88.0	86.9	85.6	69.4	85.6	69.4	79.7
45	105.3	96.9	95.8	94.6	77.4	94.6	77.4	88.0
50	115.4	106.3	105.3	104.2	86.1	104.2	86.1	96.8
55	126.1	116.3	115.3	114.4	95.3	114.4	95.3	106.2
60	137.4	127.0	126.0	125.2	105.2	125.2	105.2	116.1
65	149.4	138.2	137.3	136.7	115.8	136.7	115.8	126.7
70	162.1	150.1	149.3	148.8	127.0	148.8	127.0	137.8
75	175.5	162.7	162.0	161.7	138.9	161.7	138.9	149.6
80	189.7	176.0	175.4	175.3	151.6	175.3	151.6	162.1
85	204.6	190.0	189.5	189.7	165.1	189.7	165.1	175.3
90	220.3	204.7	204.5	204.8	179.3	204.8	179.3	189.2
95	236.8	220.2	220.2	220.8	194.5	220.8	194.5	203.8
100	254.2	236.5	236.8	237.7	210.4	237.7	210.4	219.2
105	272.5	253.7	254.2	255.3	227.4	255.3	227.4	235.3
110	291.6	271.7	272.5	273.9	245.2	273.9	245.2	252.3
115	311.8	290.5	291.8	293.5	264.1	293.5	264.1	270.2
120	332.9	310.3	312.1	314.0	284.0	314.0	284.0	288.9
125	355.0	331.0	333.3	335.4	305.0	335.4	305.0	308.6
130	378.1	352.7	355.7	357.9	327.1	357.9	327.1	329.2
135	402.4	375.4	379.1	381.5	350.5	381.5	350.5	350.7
140	427.8	399.2	403.7	406.2	375.1	406.2	375.1	373.3
145	454.5	424.0	429.6	431.9	401.0	431.9	401.0	397.0
150	482.3	450.0	456.8	458.9	428.3	458.9	428.3	421.7

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

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FORANE
REFRIGERANTS
BY ARKEMA



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) *

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	12.2	18.7	5.0	3.5	11.4	0.9
-45	9.6	16.9	7.7	0.1	8.4	3.0
-40	6.7	14.8	10.8	2.2	5.1	5.4
-35	3.5	12.5	14.1	4.5	1.5	8.1
-30	0.0	9.9	17.8	7.0	1.3	11.0
-25	1.9	7.0	21.9	9.7	3.5	14.1
-20	4.0	3.8	26.3	12.8	6.0	17.6
-15	6.3	0.2	31.2	16.1	8.7	21.4
-10	8.8	1.8	36.5	19.7	11.7	25.5
-5	11.6	4.0	42.2	23.6	15.0	30.0
0	14.6	6.3	48.4	27.9	18.7	34.8
5	17.8	8.8	55.2	32.6	22.6	40.1
10	21.3	11.6	62.4	37.6	26.9	45.7
15	25.1	14.7	70.3	43.0	31.5	51.8
20	29.2	18.0	78.7	48.8	36.6	58.3
25	33.6	21.6	87.7	55.0	42.1	65.3
30	38.4	25.5	97.4	61.7	48.0	72.7
35	43.4	29.7	107.7	68.9	54.3	80.7
40	48.9	34.2	118.8	76.6	61.2	89.2
45	54.7	39.1	130.6	84.8	68.5	98.3
50	60.9	44.3	143.2	93.6	76.4	108.0
55	67.4	49.9	156.5	102.9	84.8	118.3
60	74.5	55.9	170.7	112.8	93.8	129.2
65	81.9	62.3	185.8	123.3	103.4	140.8
70	89.8	69.1	201.8	134.4	113.7	153.0
75	98.2	76.4	218.7	146.2	124.6	165.9
80	107.0	84.2	236.5	158.6	136.1	179.6
85	116.4	92.5	255.4	171.8	148.4	194.1
90	126.2	101.2	275.4	185.7	161.5	209.3
95	136.6	110.5	296.4	200.3	175.3	225.4
100	147.6	120.3	318.6	215.8	189.9	242.3
105	159.1	130.7	341.9	232.0	205.4	260.1
110	171.2	141.7	366.4	249.1	221.7	278.8
115	183.9	153.3	392.3	267.0	238.9	298.5
120	197.2	165.6	419.4	285.8	257.1	319.2
125	211.1	178.5	447.9	305.5	276.3	340.9
130	225.7	192.0	477.9	326.2	296.5	363.8
135	241.0	206.3	509.4	347.8	317.8	387.8
140	257.0	221.3	542.5	370.5	340.3	413.0
145	273.7	237.1	577.3	394.1	363.9	439.5
150	291.1	253.6	613.9	418.9	388.8	467.4

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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