

PRESSURE (PSIG)* @ 5000 ft.

Sat Temp (°F)	R-22	R-407C Liquid Pressure	R-407C Vapor Pressure	R-410A Liquid Pressure	R-427A Liquid Pressure	R-427A Vapor Pressure	R-407A Liquid Pressure	R-407A Vapor Pressure
-50	1.1	1.1	6.0	7.4	0.7	6.4	2.0	4.0
-45	1.1	3.0	3.0	10.1	2.6	3.5	4.1	0.7
-40	3.0	5.2	0.2	13.2	4.6	0.2	6.4	1.4
-35	5.1	7.5	2.0	16.6	6.9	1.7	8.9	3.5
-30	7.4	10.2	4.1	20.3	9.4	3.7	11.6	5.7
-25	9.9	13.0	6.4	24.3	12.2	6.0	14.7	8.2
-20	12.6	16.2	8.9	28.8	15.2	8.4	18.0	10.9
-15	15.7	19.6	11.7	33.6	18.5	11.2	21.7	14.0
-10	19.0	23.4	14.8	38.9	22.1	14.2	25.6	17.3
-5	22.6	27.5	18.2	44.6	26.1	17.5	30.0	21.0
0	26.5	31.9	21.9	50.9	30.4	21.1	34.7	24.9
5	30.7	36.8	25.9	57.6	35.0	25.0	39.8	29.3
10	35.3	42.0	30.3	64.9	40.0	29.3	45.3	34.0
15	40.2	47.6	35.1	72.7	45.4	34.0	51.2	39.2
20	45.5	53.7	40.3	81.1	51.2	39.0	57.6	44.8
25	51.3	60.2	45.9	90.1	57.5	44.5	64.4	50.8
30	57.4	67.2	52.0	99.8	64.2	50.4	71.8	57.3
35	64.0	74.7	58.5	110.2	71.4	56.8	79.6	64.3
40	71.0	82.7	65.6	121.2	79.0	63.6	88.1	71.8
45	78.5	91.2	73.2	133.0	87.2	71.0	97.0	79.9
50	86.5	100.4	81.3	145.6	96.0	78.8	106.6	88.5
55	95.0	110.1	90.0	159.0	105.3	87.3	116.8	97.8
60	104.1	120.4	99.2	173.2	115.2	96.3	127.6	107.7
65	113.7	131.3	109.2	188.2	125.7	105.9	139.1	118.2
70	123.9	143.0	119.7	204.2	136.8	116.1	151.3	129.4
75	134.7	155.3	131.0	221.1	148.6	127.0	164.1	141.3
80	146.1	168.3	143.0	239.0	161.1	138.6	177.7	154.0
85	158.1	182.0	155.7	257.9	174.2	150.9	192.1	167.5
90	170.8	196.5	169.1	277.8	188.1	163.9	207.3	181.8
95	184.2	211.8	183.4	298.8	202.8	177.7	223.3	196.9
100	198.4	227.9	198.6	321.0	218.2	192.3	240.1	212.9
105	213.2	244.9	214.6	344.3	234.4	207.8	257.8	229.8
110	228.8	262.7	231.5	368.9	251.5	224.1	276.4	247.7
115	245.2	281.4	249.4	394.7	269.4	241.4	295.9	266.5
120	262.4	301.0	268.2	421.8	288.2	259.6	316.4	286.4
125	280.4	321.6	288.1	450.4	307.9	278.8	337.9	307.4
130	299.3	343.2	309.1	480.4	328.6	299.0	360.4	329.6
135	319.1	365.8	331.2	511.9	350.2	320.3	383.9	352.9
140	339.8	389.4	354.5	545.0	372.9	342.7	408.6	377.5
145	361.5	414.1	379.1	579.7	396.6	366.4	434.4	403.4
150	384.1	439.9	404.9	616.3	421.3	391.3	461.3	430.8

PRESSURE (PSIG)* @ 5000 ft.

Sat Temp (°F)	R-12	R-134a	R-409A Liquid Pressure	R-409A Vapor Pressure	R-401A Liquid Pressure	R-401A Vapor Pressure	R-401B Liquid Pressure	R-401B Vapor Pressure
-50	10.5	13.8	7.2	13.7	8.6	13.0	7.3	11.9
-45	8.4	11.9	4.7	11.9	6.1	11.0	4.6	9.8
-40	6.0	9.8	1.8	9.8	3.4	8.9	1.7	7.4
-35	3.4	7.5	0.7	7.5	0.4	6.4	0.7	4.8
-30	0.6	4.9	2.4	4.9	1.5	3.7	2.5	1.8
-25	1.3	2.0	4.4	2.0	3.3	0.7	4.4	0.7
-20	3.0	0.6	6.5	0.6	5.3	1.3	6.6	2.5
-15	4.9	2.4	8.8	2.3	7.5	3.2	8.9	4.5
-10	6.9	4.4	11.3	4.3	9.9	5.2	11.5	6.6
-5	9.1	6.5	14.0	6.4	12.5	7.4	14.3	9.0
0	11.6	8.9	17.0	8.7	15.4	9.9	17.3	11.6
5	14.2	11.5	20.3	11.3	18.5	12.5	20.7	14.5
10	17.0	14.4	23.8	14.1	21.9	15.4	24.3	17.6
15	20.1	17.5	27.6	17.1	25.6	18.6	28.1	21.0
20	23.4	20.9	31.7	20.4	29.5	22.1	32.3	24.7
25	27.0	24.5	36.1	24.0	33.8	25.8	36.8	28.7
30	30.8	28.5	40.8	27.9	38.4	29.9	41.7	33.0
35	34.9	32.8	45.9	32.1	43.3	34.2	46.9	37.6
40	39.3	37.5	51.3	36.6	48.6	38.9	52.5	42.6
45	44.0	42.5	57.1	41.5	54.3	44.0	58.5	48.0
50	49.0	47.9	63.3	46.7	60.3	49.4	64.9	53.8
55	54.4	53.7	69.9	52.3	66.8	55.2	71.7	60.0
60	60.1	59.8	76.9	58.3	73.6	61.5	78.9	66.6
65	66.1	66.5	84.3	64.7	80.9	68.1	86.6	73.6
70	72.5	73.5	92.2	71.6	88.7	75.2	94.8	81.1
75	79.3	81.1	100.6	78.9	96.9	82.8	103.4	89.1
80	86.4	89.1	109.4	86.6	105.7	90.8	112.6	97.6
85	94.0	97.7	118.8	94.9	114.9	99.4	122.3	106.7
90	102.0	106.8	128.7	103.7	124.6	108.4	132.5	116.2
95	110.5	116.4	139.0	112.9	134.9	118.0	143.3	126.4
100	119.4	126.6	150.0	122.8	145.8	128.2	154.7	137.1
105	128.7	137.4	161.5	133.2	157.2	138.9	166.7	148.4
110	138.6	148.8	173.6	144.2	169.2	150.3	179.3	160.4
115	148.9	160.9	186.3	155.8	181.9	162.3	192.6	173.0
120	159.7	173.6	199.6	168.0	195.1	174.9	206.5	186.3
125	171.1	187.0	213.6	180.9	209.1	188.2	221.1	200.3
130	183.0	201.2	228.2	194.5	223.7	202.2	236.4	215.0
135	195.4	216.0	243.5	208.7	238.9	216.9	252.4	230.5
140	208.5	231.7	259.4	223.8	255.0	232.4	269.2	246.8
145	222.1	248.1	276.1	239.5	271.7	248.6	286.7	263.8
150	236.4	265.4	293.5	256.1	289.2	265.6	305.0	281.7

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

Customer Service: 800-245-5858

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High Elevation (5000 ft.)

FORANE[®] REFRIGERANTS BY ARKEMA

Forane[®] Refrigerant Cylinder Identification

Type	Color Code	Size in lbs. (Container Type)	
R-12	CFC	White	30 (A), 50 (A), 145 (B), 2000 (E)
R-502	CFC	Lavender	30 (A), 125 (B)
R-22	HCFC	Light Green	30 (A), 50 (A), 125 (B), 1000(D), 1750 (E)
R-123	HCFC	Light Blue Grey	100 (C), 200 (C)
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-408A	HCFC	Medium Purple	24 (A), 100 (B), 1300 (E)
R-409A	HCFC	Tan	30 (A), 125 (B), 1800 (E)
R-134a	HFC	Light Blue	30 (A), 125 (B), 1000 (D), 1750 (E)
R-404A	HFC	Orange	24 (A), 100 (B), 800 (D), 1300 (E)
R-407A	HFC	Lime Green	25 (A), 115 (B)
R-407C	HFC	Brown	25 (A), 115 (B), 1000 (D), 1600 (E)
R-427A	HFC	Green	25 (A) 110 (B)
R-410A	HFC	Rose	25 (A), 100 (B), 850 (D), 1350 (E)
R-507A	HFC	Teal	25 (A), 100 (B), 800 (D), 1400 (E)



13/24/25/
27/30/50 lb.
(A)



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



100/200 lb.
(C)



1300/1350/1400/1600/
1750/1800/2000 lb.
(E)



800/850/1000 lb.
(D)

Container Types: Drawings not to scale

PRESSURE (PSIG)* @ 5000 ft.

Sat Temp (°F)	R-502	R-408A Liquid Pressure	R-402A Liquid Pressure	R-402B Liquid Pressure	R-404A Liquid Pressure	R-507A	R-123
-50	2.3	1.8	5.0	3.5	2.9	3.3	24.2
-45	4.3	3.7	7.3	5.6	5.0	5.5	24.1
-40	6.5	5.9	9.9	8.0	7.4	7.9	23.9
-35	8.9	8.3	12.7	10.6	9.9	10.5	23.7
-30	11.5	10.9	15.8	13.5	12.8	13.4	23.4
-25	14.4	13.8	19.2	16.7	15.9	16.6	23.2
-20	17.5	16.9	22.9	20.1	19.3	20.0	22.8
-15	20.9	20.4	26.9	23.8	23.0	23.8	22.5
-10	24.7	24.1	31.3	27.9	27.0	27.9	22.0
-5	28.7	28.2	36.0	32.3	31.4	32.4	21.5
0	33.0	32.6	41.1	37.1	36.1	37.3	21.0
5	37.7	37.3	46.7	42.2	41.2	42.5	20.3
10	42.8	42.4	52.6	47.7	46.7	48.1	19.6
15	48.2	48.0	59.0	53.7	52.7	54.2	18.8
20	54.1	53.9	65.8	60.1	59.0	60.7	17.9
25	60.3	60.3	73.2	66.9	65.9	67.7	16.9
30	67.0	67.1	81.0	74.3	73.2	75.2	15.8
35	74.1	74.4	89.4	82.1	81.0	83.2	14.6
40	81.7	82.1	98.3	90.4	89.3	91.7	13.2
45	89.8	90.4	107.8	99.3	98.2	100.8	11.7
50	98.4	99.2	117.8	108.8	107.7	110.4	10.0
55	107.5	108.6	128.5	118.8	117.8	120.7	8.2
60	117.2	118.6	139.9	129.4	128.4	131.6	6.2
65	127.4	129.1	151.9	140.7	139.8	143.2	4.0
70	138.2	140.3	164.6	152.6	151.8	155.4	1.7
75	149.6	152.1	178.0	165.1	164.4	168.4	0.5
80	161.7	164.5	192.1	178.4	177.8	182.1	1.8
85	174.4	177.7	207.0	192.4	192.0	196.5	3.3
90	187.7	191.6	222.7	207.1	206.9	211.8	4.9
95	201.8	206.2	239.3	222.7	222.6	227.8	6.7
100	216.6	221.6	256.6	239.0	239.2	244.7	8.5
105	232.1	237.8	274.9	256.1	256.6	262.5	10.6
110	248.4	254.8	294.1	274.1	275.0	281.3	12.7
115	265.5	272.6	314.2	293.0	294.2	301.0	15.0
120	283.4	291.4	335.3	312.7	314.5	321.6	17.5
125	302.2	311.0	357.4	333.5	335.8	343.4	20.2
130	321.9	331.6	380.6	355.2	358.1	366.2	23.0
135	342.4	353.2	404.8	377.9	381.5	390.2	26.0
140	364.0	375.7	430.3	401.6	406.2	415.4	29.2
145	386.6	399.4	456.9	426.5	432.0	441.9	32.6
150	410.2	424.1	484.8	452.4	459.2	469.9	36.2

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)