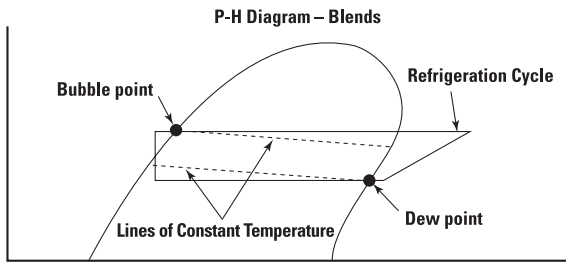




Refrigerants by The Chemours Company

Pressure-Temperature Guide for A/C

Key: **Green** (in of Hg) = Vacuum
Black (psig) = Saturated Vapor (calculate superheat)
Bold (psig) = Saturated Liquid (calculate subcooling)



To determine superheat, use **dew point** values.
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DO NOT MIX REFRIGERANTS

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For refrigerant related support, contact our Tech2Tech Support Team:

tech2tech@chemours.com **866-433-TECH**
 (8324)



To add our Tech2Tech Support as a contact in your mobile device, use the QR Code above.



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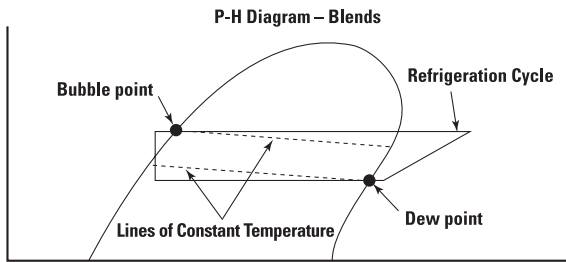
	Freon™ 410A (R-410A)	Opteon™ XL41 (R-454B)	Freon™ 407C (R-407C)	Freon™ NU-22B™ (R-422B)	Freon™ MO99™ (R-438A)	Freon™ 22 (R-22)
SAFETY GROUP	A1	A2L	A1	A1	A1	A1
°F	psig	psig	psig	psig	psig	psig
-50	4.9	3.1	10.8	11.4	11.2	5.8
-45	7.6	5.6	8.0	8.6	8.4	2.6
-40	10.7	8.4	4.6	5.4	5.2	0.6
-35	14.0	11.5	0.8	1.8	1.6	2.6
-30	17.7	14.8	1.6	1.1	1.2	4.9
-25	21.8	18.5	3.9	3.2	3.5	7.4
-20	26.2	22.6	6.5	5.7	5.9	10.2
-18	28.1	24.3	7.6	6.7	7.0	11.4
-16	30.0	26.1	8.7	7.8	8.1	12.6
-14	32.0	27.9	9.9	8.9	9.2	13.9
-12	34.1	29.8	11.1	10.1	10.4	15.2
-10	36.3	31.8	12.3	11.3	11.6	16.5
-8	38.5	33.8	13.7	12.5	12.9	17.9
-6	40.8	35.9	15.0	13.8	14.2	19.4
-4	43.2	38.1	16.4	15.2	15.6	20.9
-2	45.7	40.4	17.9	16.6	17.0	22.4
0	48.2	42.7	19.4	18.0	18.5	24.0
2	50.8	45.1	21.0	19.5	20.0	25.7
4	53.5	47.6	22.6	21.1	21.6	27.4
6	56.3	50.1	24.3	22.7	23.2	29.2
8	59.2	52.7	26.1	24.4	24.9	31.0
10	62.2	55.4	27.9	26.1	26.6	32.8
12	65.2	58.2	29.8	27.8	28.4	34.8
14	68.4	61.1	31.7	29.7	30.3	36.8
16	71.6	64.1	33.7	31.6	32.2	38.8
18	74.9	67.1	35.7	33.5	34.2	40.9
20	78.4	70.3	37.9	35.5	36.2	43.1
22	81.9	73.5	40.1	37.6	38.3	45.3
24	85.5	76.8	42.3	39.7	40.5	47.6
26	89.2	80.3	44.7	41.9	42.8	50.0
28	93.1	83.8	47.1	44.2	45.1	52.4
30	97.0	87.4	49.6	46.6	47.5	55.0
32	101.1	91.1	52.1	49.0	49.9	57.5
34	105.2	94.9	54.8	51.5	52.5	60.2
36	109.5	98.8	57.5	54.0	55.1	62.9
38	113.9	102.9	60.3	56.7	57.7	65.7
40	118.4	107.0	63.2	59.4	60.5	68.6
42	123.0	111.2	66.1	62.1	63.3	71.5
44	127.7	115.6	69.2	65.0	66.3	74.5
46	132.6	120.0	72.3	67.9	69.3	77.6
48	137.5	124.6	75.5	71.0	72.3	80.8
50	142.6	129.3	78.8	74.1	75.5	84.1
52	148.4	140.0	82.2	88.6	94.6	87.4
54	153.8	145.1	85.7	92.1	98.3	90.8
56	159.3	150.3	89.3	95.6	102.1	94.4
58	164.9	155.7	93.0	99.3	105.9	98.0
60	170.7	161.1	96.8	103.0	109.8	101.6
65	185.8	175.4	128.9	112.7	120.1	111.3
70	201.8	190.5	140.5	123.0	131.0	121.4
75	218.7	206.5	152.8	133.9	142.5	132.2
80	236.5	223.4	165.8	145.4	154.7	143.6
82	244.0	230.4	171.3	150.2	159.8	148.4
84	251.6	237.6	176.8	155.1	165.0	153.2
86	259.3	244.9	182.4	160.1	170.3	158.2
88	267.3	252.4	188.2	165.2	175.7	163.2
90	275.4	260.1	194.1	170.4	181.2	168.4
92	283.6	267.9	200.1	175.7	186.8	173.7
94	292.1	275.8	206.3	181.2	192.6	179.1
96	300.7	284.0	212.5	186.7	198.5	184.6
98	309.5	292.3	219.0	192.4	204.5	190.2
100	318.5	300.8	225.5	198.2	210.6	195.9
102	327.7	309.4	232.2	204.1	216.8	201.8
104	337.1	318.3	239.0	210.2	223.2	207.7
106	346.7	327.3	245.9	216.3	229.7	213.8
108	356.5	336.5	253.0	222.6	236.4	220.0
110	366.4	345.9	260.3	229.0	243.1	226.4
112	376.6	355.5	267.6	235.6	250.1	232.8
114	387.0	365.2	275.1	242.3	257.1	239.4
116	397.6	375.2	282.8	249.1	264.3	246.1
118	408.4	385.3	290.6	256.0	271.6	253.0
120	419.4	395.7	298.6	263.1	279.1	260.0
122	430.7	406.2	306.7	270.3	286.7	267.1
124	442.1	417.0	315.0	277.7	294.4	274.3
126	453.8	427.9	323.4	285.2	302.3	281.7
128	465.8	439.1	332.0	292.8	310.4	289.2
130	477.9	450.5	340.7	300.6	318.5	296.9
135	509.4	480.0	363.3	320.7	339.7	316.7
140	542.5	510.7	387.0	341.8	361.9	337.4
150	613.9	576.8	437.5	387.1	409.2	381.7



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SAFETY GROUP	A1	A2L	A1	A1	A1	A1
°C	bar_g	bar_g	bar_g	bar_g	bar_g	bar_g
-50	0.07	-0.03	-0.51	-0.53	-0.52	-0.37
-48	0.19	0.08	-0.45	-0.47	-0.46	-0.30
-46	0.31	0.19	-0.39	-0.41	-0.40	-0.22
-44	0.44	0.31	-0.32	-0.34	-0.33	-0.14
-42	0.58	0.44	-0.24	-0.27	-0.26	-0.06
-40	0.74	0.58	-0.16	-0.19	-0.18	0.04
-38	0.90	0.73	-0.07	-0.10	-0.09	0.14
-36	1.08	0.89	0.03	-0.01	0.01	0.25
-34	1.26	1.06	0.14	0.10	0.11	0.37
-32	1.47	1.24	0.25	0.20	0.22	0.49
-30	1.68	1.44	0.37	0.32	0.34	0.63
-28	1.91	1.65	0.51	0.45	0.47	0.77
-26	2.15	1.87	0.65	0.58	0.60	0.92
-24	2.41	2.11	0.80	0.73	0.75	1.08
-22	2.69	2.36	0.96	0.88	0.91	1.26
-20	2.98	2.63	1.13	1.05	1.07	1.44
-18	3.29	2.91	1.32	1.22	1.25	1.63
-16	3.62	3.21	1.52	1.41	1.44	1.84
-14	3.96	3.53	1.73	1.61	1.64	2.06
-12	4.33	3.86	1.95	1.82	1.86	2.29
-10	4.71	4.21	2.18	2.05	2.09	2.53
-8	5.12	4.59	2.44	2.28	2.33	2.79
-6	5.55	4.98	2.70	2.53	2.58	3.06
-4	6.00	5.39	2.98	2.80	2.85	3.35
-2	6.47	5.83	3.28	3.08	3.14	3.65
0	6.97	6.28	3.59	3.38	3.44	3.97
2	7.49	6.76	3.93	3.69	3.76	4.30
4	8.04	7.26	4.27	4.02	4.09	4.65
6	8.61	7.79	4.64	4.36	4.45	5.01
8	9.21	8.34	5.03	4.73	4.82	5.40
10	9.87	9.31	6.75	5.88	6.28	5.80
12	10.53	9.93	7.23	6.30	6.73	6.22
14	11.22	10.59	7.73	6.74	7.19	6.65
16	11.93	11.26	8.25	7.21	7.68	7.11
18	12.68	11.97	8.79	7.69	8.19	7.59
20	13.46	12.71	9.36	8.19	8.73	8.09
22	14.28	13.48	9.96	8.71	9.28	8.61
24	15.12	14.28	10.57	9.26	9.86	9.15
26	16.01	15.12	11.21	9.83	10.46	9.71
28	16.93	15.98	11.88	10.42	11.09	10.30
30	17.88	16.89	12.58	11.04	11.74	10.91
32	18.87	17.82	13.30	11.68	12.42	11.54
34	19.91	18.80	14.05	12.34	13.12	12.20
36	20.98	19.81	14.83	13.03	13.85	12.88
38	22.09	20.86	15.64	13.75	14.61	13.59
40	23.24	21.94	16.48	14.49	15.39	14.32
42	24.44	23.07	17.35	15.26	16.21	15.08
44	25.68	24.24	18.25	16.06	17.05	15.87
46	26.97	25.45	19.18	16.89	17.92	16.69
48	28.31	26.71	20.15	17.75	18.83	17.54
50	29.69	28.01	21.15	18.64	19.76	18.41
52	31.13	29.35	22.18	19.56	20.73	19.32
54	32.61	30.74	23.25	20.51	21.74	20.26
56	34.15	32.18	24.36	21.50	22.77	21.23
58	35.75	33.67	25.50	22.51	23.84	22.23
60	37.41	35.21	26.68	23.57	24.95	23.26
62	39.12	36.81	27.90	24.66	26.09	24.33
64	40.90	38.45	29.16	25.78	27.27	25.43
66	42.74	40.15	30.46	26.95	28.49	26.57