

PROGRESSION TOWARD SUSTAINABLE REFRIGERATION PRODUCTS



PRESSURE TEMPERATURE CHART

Saturated Temperature (°F)	R-22	R-32	R-134a	R-404A Liquid Pressure	R-407A Liquid Pressure	R-407A Vapor Pressure	R-407C Liquid Pressure	R-407C Vapor Pressure	R-408A Liquid Pressure	R-409A Liquid Pressure	R-409A Vapor Pressure	R-410A Liquid Pressure	R-427A Liquid Pressure	R-427A Vapor Pressure	R-507A	Saturated Temperature (°C)
-50	6.1	5.2	18.7	0.5	0.8	9.0	2.7	11.0	1.4	12.2	18.7	5.0	3.5	11.4	0.9	-45.6
-45	2.7	8.0	16.9	2.6	1.7	5.7	0.6	8.0	1.3	9.6	16.9	7.7	0.1	8.4	3.0	-42.8
-40	0.6	11.0	14.8	4.9	3.9	2.0	2.7	4.6	3.5	6.7	14.8	10.8	2.2	5.1	5.4	-40.0
-35	2.6	14.4	12.5	7.5	6.4	1.0	5.1	0.9	5.8	3.5	12.5	14.1	4.5	1.5	8.1	-37.2
-30	4.9	18.2	9.8	10.3	9.2	3.3	7.7	1.6	8.5	0.0	9.9	17.8	7.0	1.3	11.0	-34.4
-25	7.4	22.3	6.9	13.4	12.2	5.8	10.6	3.9	11.3	1.9	7.0	21.9	9.7	3.5	14.1	-31.7
-20	10.2	26.8	3.7	16.8	15.6	8.5	13.7	6.5	14.5	4.0	3.8	26.3	12.8	6.0	17.6	-28.9
-15	13.2	31.7	0.0	20.5	19.2	11.5	17.2	9.3	17.9	6.3	0.2	31.2	16.1	8.7	21.4	-26.1
-10	16.5	37.1	1.9	24.6	23.2	14.9	20.9	12.3	21.7	8.8	1.8	36.5	19.7	11.7	25.5	-23.3
-5	20.1	42.9	4.1	28.9	27.5	18.5	25.0	15.7	25.7	11.6	4.0	42.2	23.6	15.0	30.0	-20.6
0	24.0	49.3	6.5	33.7	32.2	22.5	29.5	19.4	30.1	14.6	6.3	48.4	27.9	18.7	34.8	-17.8
5	28.3	56.1	9.1	38.8	37.3	26.9	34.3	23.5	34.9	17.8	8.8	55.2	32.6	22.6	40.1	-15.0
10	32.8	63.5	11.9	44.3	42.8	31.6	39.5	27.9	40.0	21.3	11.6	62.4	37.6	26.9	45.7	-12.2
15	37.8	71.4	15.0	50.2	48.7	36.7	45.2	32.7	45.5	25.1	14.7	70.3	43.0	31.5	51.8	-9.4
20	43.1	80.0	18.4	56.6	55.1	42.3	51.2	37.9	51.5	29.2	18.0	78.7	48.8	36.6	58.3	-6.7
25	48.8	89.2	22.1	63.4	62.0	48.3	57.7	43.5	57.8	33.6	21.6	87.7	55.0	42.1	65.3	-3.9
30	55.0	99.1	26.1	70.7	69.3	54.8	64.7	49.6	64.6	38.4	25.5	97.4	61.7	48.0	72.7	-1.1
35	61.5	109.7	30.4	78.6	77.2	61.8	72.2	56.1	71.9	43.4	29.7	107.7	68.9	54.3	80.7	1.7
40	68.6	121.0	35.0	86.9	85.6	69.4	80.2	63.2	79.7	48.9	34.2	118.8	76.6	61.2	89.2	4.4
45	76.1	133.0	40.1	95.8	94.6	77.4	88.8	70.7	88.0	54.7	39.1	130.6	84.8	68.5	98.3	7.2
50	84.1	145.9	45.4	105.3	104.2	86.1	97.9	78.8	96.8	60.9	44.3	143.2	93.6	76.4	108.0	10.0
55	92.6	159.5	51.2	115.3	114.4	95.3	107.6	87.5	106.2	67.4	49.9	156.5	102.9	84.8	118.3	12.8
60	101.6	174.1	57.4	126.0	125.2	105.2	118.0	96.8	116.1	74.5	55.9	170.7	112.8	93.8	129.2	15.6
65	111.3	189.5	64.0	137.3	136.7	115.8	128.9	106.7	126.7	81.9	62.3	185.8	123.3	103.4	140.8	18.3
70	121.4	205.8	71.1	149.3	148.8	127.0	140.5	117.3	137.8	89.8	69.1	201.8	134.4	113.7	153.0	21.1
75	132.2	223.2	78.7	162.0	161.7	138.9	152.8	128.6	149.6	98.2	76.4	218.7	146.2	124.6	165.9	23.9
80	143.6	241.5	86.7	175.4	175.3	151.6	165.8	140.5	162.1	107.0	84.2	236.5	158.6	136.1	179.6	26.7
85	155.7	260.9	95.2	189.5	189.7	165.1	179.6	153.2	175.3	116.4	92.5	255.4	171.8	148.4	194.1	29.4
90	168.4	281.3	104.3	204.5	204.8	179.3	194.1	166.7	189.2	126.2	101.2	275.4	185.7	161.5	209.3	32.2
95	181.8	302.9	114.0	220.2	220.8	194.5	209.4	181.0	203.8	136.6	110.5	296.4	200.3	175.3	225.4	35.0
100	195.9	325.7	124.2	236.8	237.7	210.4	225.5	196.1	219.2	147.6	120.3	318.6	215.8	189.9	242.3	37.8
105	210.8	349.7	135.0	254.2	255.3	227.4	242.4	212.1	235.3	159.1	130.7	341.9	232.0	205.4	260.1	40.6
110	226.4	374.9	146.4	272.5	273.9	245.2	260.3	229.0	252.3	171.2	141.7	366.4	249.1	221.7	278.8	43.3
115	242.8	401.4	158.4	291.8	293.5	264.1	279.0	246.9	270.2	183.9	153.3	392.3	267.0	238.9	298.5	46.1
120	260.0	429.3	171.2	312.1	314.0	284.0	298.6	265.8	288.9	197.2	165.6	419.4	285.8	257.1	319.2	48.9
125	278.0	458.7	184.6	333.3	335.4	305.0	319.2	285.7	308.6	211.1	178.5	447.9	305.5	276.3	340.9	51.7
130	296.9	489.5	198.7	355.7	357.9	327.1	340.7	306.7	329.2	225.7	192.0	477.9	326.2	296.5	363.8	54.4
135	316.7	521.8	213.6	379.1	381.5	350.5	363.3	328.8	350.7	241.0	206.3	509.4	347.8	317.8	387.8	57.2
140	337.4	555.8	229.2	403.7	406.2	375.1	387.0	352.1	373.3	257.0	221.3	542.5	370.5	340.3	413.0	60.0
145	359.0	591.4	245.7	429.6	431.9	401.0	411.7	376.6	397.0	273.7	237.1	577.3	394.1	363.9	439.5	62.8
150	381.7	628.8	262.9	456.8	458.9	428.3	437.5	402.5	421.7	291.1	253.6	613.9	418.9	388.8	467.4	65.6

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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