

# Pressure Temperature Charts



°F	°C	R-502
-40	-40.0	4.1
-35	-37.2	6.5
-30	-34.4	9.2
-25	-31.7	12.1
-20	-28.9	15.3
-15	-26.1	18.8
-10	-23.3	22.6
-5	-20.6	26.7
0	-17.8	31.1
5	-15.0	35.9
10	-12.2	41
15	-9.4	46.5
20	-6.7	52.4
25	-3.9	58.8
30	-1.1	65.6
35	1.7	72.8
40	4.4	80.5
45	7.2	88.7
50	10.0	97.4
55	12.8	107

°F	°C	R-502
60	15.6	116
65	18.3	127
70	21.1	138
75	23.9	149
80	26.7	161
85	29.4	174
90	32.2	187
95	35.0	201
100	37.8	216
105	40.6	232
110	43.3	248
115	46.1	265
120	48.9	283
125	51.7	301
130	54.4	321
135	57.2	341
140	60.0	363
145	62.8	-
150	65.6	-

Vapor Pressure in PSIG

## Refrigerant Boiling Point

Refrigerant	Components	BP
R-502	R-115 (51.2%), R-22 (48.8%) Chloropentafluoroethane, Chlorodifluoromethane	-49.5°F

## Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-502	#/cu. ft.	95.8	91.4	86.7	81.5	75.5	68
	#/gal.	12.8	12.2	11.6	10.9	10.1	9.1

## Physical Properties

	R-502
Environmental Classification	CFC
Molecular Weight	111.6
Boiling Point (1atm,°F)	-49.5
Critical Pressure (psia)	582.8
Critical Temperature (°F)	177.3
Critical Density (lb./ft <sup>3</sup> )	35.5
Vapor Density (bp,lb./ft <sup>3</sup> )	0.388
Heat of Vaporization (bp,BTU/lb.)	74.2
Global Warming Potential (CO <sub>2</sub> = 1.0)	4657
ASHRAE Standard 34 Safety Rating	A1