

# Pressure Temperature Charts



°F	°C	R-500
-20	-28.9	3.2
-15	-26.1	5.4
-10	-23.3	7.8
-5	-20.6	10.4
0	-17.8	13.3
5	-15.0	16.4
10	-12.2	19.7
15	-9.4	23.4
20	-6.7	27.3
25	-3.9	31.5
30	-1.1	36
35	1.7	40.9
40	4.4	46.1
45	7.2	51.6
50	10.0	57.6
55	12.8	63.9
60	15.6	70.6
65	18.3	77.8

°F	°C	R-500
70	21.1	85.4
75	23.9	93.5
80	26.7	102
85	29.4	111
90	32.2	121
95	35.0	131
100	37.8	141
105	40.6	152
110	43.3	164
115	46.1	177
120	48.9	189
125	51.7	203
130	54.4	217
135	57.2	232
140	60.0	248
145	62.8	-
150	65.6	-

Vapor Pressure in PSIG

## Refrigerant Boiling Point

Refrigerant	Components	BP
R-500	R-12 (73.8%), R-152a (26.2%) Dichlorodifluoromethane, 1,1-Difluoroethane	-28.5°F

## Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-500	#/cu. ft.	87.9	84.3	80.5	76.3	71.8	66.6
	#/gal.	11.8	11.3	10.8	10.2	9.6	8.9

## Physical Properties

	R-500
Environmental Classification	CFC
Molecular Weight	99.3
Boiling Point (1atm,°F)	-28.5
Critical Pressure (psia)	605.2
Critical Temperature (°F)	215.8
Critical Density (lb./ft <sup>3</sup> )	30.7
Vapor Density (bp,lb./ft <sup>3</sup> )	0.329
Heat of Vaporization (bp,BTU/lb.)	86.4
Global Warming Potential (CO <sub>2</sub> = 1.0)	8077
ASHRAE Standard 34 Safety Rating	A1