



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	36.0
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

°F	°C	R-500
60	15.6	70.6
65	18.3	77.8
70	21.1	85.4
75	23.9	93.5
80	26.7	102.0
85	29.4	111.0
90	32.2	121.0
95	35.0	131.0
100	37.8	141.0
105	40.6	152.0
110	43.3	164.0
115	46.1	177.0
120	48.9	189.0
125	51.7	203.0
130	54.4	217.0
135	57.2	232.0
140	60.0	248.0
145	62.8	-
150	65.6	-

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant	Components	BP (0 PSIG):
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 g/mol
Boiling Point (1atm, °F)	-28.5
Critical Pressure (psia)	605.2
Critical Temperature (°F)	215.8
Critical Density (lb./ft ^3)	30.7
Vapor Density (bp, lb./ft ^3)	0.329
Heat of Vaporization (bp, BTU/lb.)	86.4
Global Warming Potential (CO2 = 1.0)	8077
ASHRAE Standard 34 Safety Rating	A1

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