



Pressure Temperature Charts

°F	°C	R-513A
-40	-40	12.1
-35	-37.2	9.4
-30	-34.4	6.5
-25	-31.7	3.3
-20	-28.9	0.1
-15	-26.1	2.1
-10	-23.3	4.2
-5	-20.6	6.6
0	-17.8	9.1
5	-15.0	11.9
10	-12.2	15.0
15	-9.4	18.3
20	-6.7	21.9
25	-3.9	25.9
30	-1.1	30.1
35	1.7	34.6
40	4.4	39.6
45	7.2	44.8
50	10.0	50.5
55	12.8	56.5

°F	°C	R-513A
60	15.6	63.0
65	18.3	69.9
70	21.1	77.3
75	23.9	85.1
80	26.7	93.4
85	29.4	102.0
90	32.2	112.0
95	35.0	121.0
100	37.8	132.0
105	40.6	143.0
110	43.3	155.0
115	46.1	167.0
120	48.9	180.0
125	51.7	193.0
130	54.4	207.0
135	57.2	222.0
140	60.0	238.0
145	62.8	254.0
150	65.6	271.0

Vapor Pressure in PSIG
In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant	Components	BP (0 PSIG):
R-513A	R-1234yf (56%), R-134A (44%) 2,3,3,3-Tetrafluoroprop-1-ene, 1,1,1,2-Tetrafluoroethane	-20.6°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-513A	#/cu. ft.	90.19	86.32	82.21	77.73	72.69	66.76
	# / gal.	12.06	11.54	10.99	10.39	9.72	8.92

Physical Properties

	R-513A
Environmental Classification	HFC/HFO Zeotropic Blend
Molecular Weight	108.4 g/mol
Boiling Point (1atm, °F)	-20.6
Critical Pressure (psia)	546
Critical Temperature (°F)	174
Critical Density (lb./ft ^3)	32.26
Vapor Density (bp, lb./ft ^3)	0.3530
Heat of Vaporization (bp, BTU/lb.)	84.3
Global Warming Potential (CO2 = 1.0)	573
ASHRAE Standard 34 Safety Rating	A1

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