



Pressure Temperature Charts

°F	°C	R-507
-40	-40.0	5.5
-35	-37.2	8.2
-30	-34.4	11.1
-25	-31.7	14.3
-20	-28.9	17.8
-15	-26.1	21.7
-10	-23.3	25.8
-5	-20.6	30.3
0	-17.8	35.2
5	-15.0	40.5
10	-12.2	46.1
15	-9.4	52.2
20	-6.7	58.8
25	-3.9	65.8
30	-1.1	73.3
35	1.7	81.3
40	4.4	89.8
45	7.2	98.9
50	10.0	109.0
55	12.8	119.0

°F	°C	R-507
60	15.6	130.0
65	18.3	141.0
70	21.1	154.0
75	23.9	167.0
80	26.7	180.0
85	29.4	195.0
90	32.2	210.0
95	35.0	226.0
100	37.8	244.0
105	40.6	262.0
110	43.3	281.0
115	46.1	301.0
120	48.9	322.0
125	51.7	344.0
130	54.4	368.0
135	57.2	393.0
140	60.0	419.0
145	62.8	446.0
150	65.6	475.0

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant	Components	BP (0 PSIG):
R-507	R-125 (50%), R-143A (50%) Pentafluoroethane, 1,1,1- Trifluoroethane	-52.8°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-507	#/cu. ft.	-	80.9	76.3	71.2	65.0	56.7
	# / gal.	-	11.9	10.2	9.5	8.7	7.6

Physical Properties

	R-507
Environmental Classification	HFC
Molecular Weight	98.9 g/mol
Boiling Point (1atm, °F)	-52.8
Critical Pressure (psia)	539
Critical Temperature (°F)	159
Critical Density (lb./ft ^3)	30.7
Vapor Density (bp, lb./ft ^3)	0.349
Heat of Vaporization (bp, BTU/lb.)	84.35
Global Warming Potential (CO2 = 1.0)	3985
ASHRAE Standard 34 Safety Rating	A1

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