



Pressure Temperature Charts

°F	°C	R-407A Liquid	R-407A Vapor
-40	-40.0	3.9	1.0
-35	-37.2	6.4	1.0
-30	-34.4	9.2	3.3
-25	-31.7	12.2	5.8
-20	-28.9	15.6	8.5
-15	-26.1	19.2	11.5
-10	-23.3	23.2	14.9
-5	-20.6	27.5	18.5
0	-17.8	32.2	22.5
5	-15.0	37.3	26.9
10	-12.2	42.8	31.6
15	-9.4	48.7	36.7
20	-6.7	55.1	42.3
25	-3.9	62.0	48.3
30	-1.1	69.3	54.8
35	1.7	77.2	61.8
40	4.4	85.6	69.4
45	7.2	94.6	77.4
50	10.0	104.0	86.1
55	12.8	114.0	95.3

°F	°C	R-407A Liquid	R-407A Vapor
60	15.6	125.0	105.0
65	18.3	137.0	116.0
70	21.1	149.0	127.0
75	23.9	162.0	139.0
80	26.7	175.0	152.0
85	29.4	190.0	165.0
90	32.2	205.0	179.0
95	35.0	221.0	194.0
100	37.8	238.0	210.0
105	40.6	255.0	227.0
110	43.3	274.0	245.0
115	46.1	293.0	264.0
120	48.9	314.0	284.0
125	51.7	335.0	305.0
130	54.4	358.0	327.0
135	57.2	382.0	350.0
140	60.0	406.0	375.0

**Vapor Pressure in PSIG
In Vacuum (inches in Hg)**

Refrigerant Boiling Point

Refrigerant	Components	BP (0 PSIG):
R-407A	R-125 (40%), R-134A (40%), R-32 (20%) Pentafluoroethane, 1,1,1,2-Tetrafluoroethane, Difluoromethane	-49.9°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-407A	#/cu. ft.	90.94	86.61	81.99	76.90	71.01	63.64
	#/gal.	12.16	11.58	10.96	10.28	9.49	8.51

Physical Properties

	R-407A
Environmental Classification	HFC
Molecular Weight	90.1 g/mol
Boiling Point (1atm, °F)	-49.9
Critical Pressure (psia)	658.6
Critical Temperature (°F)	181
Critical Density (lb./ft ^3)	31.4
Vapor Density (bp, lb./ft ^3)	0.291
Heat of Vaporization (bp, BTU/lb.)	100.8
Global Warming Potential (CO2 = 1.0)	1923
ASHRAE Standard 34 Safety Rating	A1

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