

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	86.1

°F	°C	R-407A Liquid	R-407A Vapor
55	12.8	114	95.3
60	15.6	125	105
65	18.3	137	116
70	21.1	149	127
75	23.9	162	139
80	26.7	175	152
85	29.4	190	165
90	32.2	205	179
95	35.0	221	194
100	37.8	238	210
105	40.6	255	227
110	43.3	274	245
115	46.1	293	264
120	48.9	314	284
125	51.7	335	305
130	54.4	358	327
135	57.2	382	350
140	60.0	406	375

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant	Components	BP
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
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 (CO ₂ = 1.0)	1923
ASHRAE Standard 34 Safety Rating	A1