

Pressure Temperature Charts



°F	°C	R-407C Liquid	R-407C Vapor
-40	-40.0	3	4.4
-35	-37.2	5.4	0.6
-30	-34.4	8	1.8
-25	-31.7	10.9	4.1
-20	-28.9	14.1	6.6
-15	-26.1	17.6	9.4
-10	-23.3	21.3	12.5
-5	-20.6	25.4	15.9
0	-17.8	29.9	19.6
5	-15.0	34.7	23.6
10	-12.2	39.9	28
15	-9.4	45.6	32.8
20	-6.7	51.6	38
25	-3.9	58.2	43.6
30	-1.1	65.2	49.6
35	1.7	72.6	56.1
40	4.4	80.7	63.1
45	7.2	89.2	70.6
50	10.0	98.3	78.7
55	12.8	108	87.3

°F	°C	R-407C Liquid	R-407C Vapor
60	15.6	118	96.8
65	18.3	129	106
70	21.1	141	117
75	23.9	153	128
80	26.7	166	140
85	29.4	180	153
90	32.2	195	166
95	35.0	210	181
100	37.8	226	196
105	40.6	243	211
110	43.3	261	229
115	46.1	280	247
120	48.9	300	266
125	51.7	321	286
130	54.4	342	307
135	57.2	365	329
140	60.0	389	353
145	62.8	-	-
150	65.6	-	-

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant	Components	BP
R-407C	R-134a (52%), R-125 (25%), R-32 (23%) 1,1,1,2-Tetrafluoroethane, Pentafluoroethane, Difluoromethane	-43.6°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-407C	#/cu. ft.	89.68	85.49	81.04	76.15	70.56	63.69
	#/gal.	11.99	11.43	10.83	10.18	9.43	8.51

Physical Properties

	R-407C
Environmental Classification	HFC
Molecular Weight	86.2
Boiling Point (1atm, °F)	-43.6
Critical Pressure (psia)	672.1
Critical Temperature (°F)	187
Critical Density (lb./ft ³)	32
Vapor Density (bp, lb./ft ³)	0.289
Heat of Vaporization (bp, BTU/lb.)	106.7
Global Warming Potential (CO ₂ = 1.0)	1774
ASHRAE Standard 34 Safety Rating	A1