

Pressure Temperature Charts



°F	°C	R-417C Liquid	R-417C Vapor
-40	-40.0	8.8	12.4
-35	-37.2	5.9	9.8
-30	-34.4	2.5	6.7
-25	-31.7	0.6	3.5
-20	-28.9	2.7	0.2
-15	-26.1	4.9	2.2
-10	-23.3	7.3	4.4
-5	-20.6	10.0	6.9
0	-17.8	13.0	9.5
5	-15.0	16.1	12.5
10	-12.2	19.6	15.7
15	-9.4	23.4	19.2
20	-6.7	27.5	23.0
25	-3.9	31.9	27.2
30	-1.1	36.6	31.7
35	1.7	41.8	36.5
40	4.4	47.3	41.7
45	7.2	53.2	47.3
50	10.0	59.5	53.3
55	12.8	66.2	59.8

°F	°C	R-417C Liquid	R-417C Vapor
60	15.6	73.4	66.7
65	18.3	81.1	74.1
70	21.1	89.3	82.0
75	23.9	98.0	90.4
80	26.7	107	99.3
85	29.4	117	109
90	32.2	127	119
95	35.0	138	130
100	37.8	150	141
105	40.6	162	153
110	43.3	175	166
115	46.1	189	179
120	48.9	203	193
125	51.7	218	208
130	54.4	234	223
135	57.2	250	240
140	60.0	268	257
145	62.8	286	275
150	65.6	305	294

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant	Components	BP
R-417C	R-125 (19.5%), R-134a (78.8%), R-600 (1.7%) Pentafluoroethane, 1,1,1,2-Tetrafluoroethane, n-Butane	-26.7°F

Physical Properties

	R-417C
Environmental Classification	HFC
Molecular Weight	103.7
Boiling Point (1atm,°F)	-26.7
Critical Pressure (psia)	591
Critical Temperature (°F)	204
Critical Density (lb./ft ³)	32.12
Vapor Density (bp,lb./ft ³)	0.2893
Heat of Vaporization (bp,BTU/lb.)	91.2
Global Warming Potential (CO ₂ = 1.0)	1820
ASHRAE Standard 34 Safety Rating	A1