

# Pressure Temperature Charts



°F	°C	R-448A Liquid	R-448A Vapor
-40	-40.0	4.9	0.0
-35	-37.2	7.5	2.1
-30	-34.4	10.4	4.4
-25	-31.7	13.5	7.0
-20	-28.9	17.0	9.8
-15	-26.1	20.8	13.0
-10	-23.3	24.9	16.4
-5	-20.6	29.3	20.2
0	-17.8	34.2	24.3
5	-15.0	39.4	28.8
10	-12.2	45.1	33.6
15	-9.4	51.2	38.9
20	-6.7	57.8	44.6
25	-3.9	64.8	50.7
30	-1.1	72.3	57.3
35	1.7	80.4	64.4
40	4.4	89.0	72.1
45	7.2	98.2	80.3
50	10.0	108	89.0
55	12.8	118	98.4

°F	°C	R-448A Liquid	R-448A Vapor
60	15.6	129	108
65	18.3	141	119
70	21.1	154	130
75	23.9	167	142
80	26.7	181	155
85	29.4	195	169
90	32.2	211	183
95	35.0	227	198
100	37.8	244	214
105	40.6	262	231
110	43.3	281	249
115	46.1	300	268
120	48.9	321	288
125	51.7	343	309
130	54.4	365	331
135	57.2	389	355
140	60.0	414	379
145	62.8	440	405
150	65.6	467	433

Vapor Pressure in PSIG

## Refrigerant Boiling Point

Refrigerant		BP
R-448A	R-32 (26%), R-125 (26%), R-134a (21%), R-1234yf (20%), R-1234ze (7%) Difluoromethane, Pentafluoroethane, 1,1,1,2-Tetrafluoroethane, 2,3,3,3-Tetrafluoroprop-1-ene, Trans-1,3,3,3-Tetrafluoroprop-1-ene	-50.7°F

## Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-448A	#/cu. ft.	87.25	83.11	78.66	73.73	68.03	60.91
	#/gal.	11.66	11.11	10.52	9.86	9.09	8.14

## Physical Properties

	R-448A
Environmental Classification	HFC
Molecular Weight	86.3
Boiling Point (1atm, °F)	-50.7
Critical Pressure (psia)	675.6
Critical Temperature (°F)	182.6
Critical Density (lb./ft <sup>3</sup> )	30.0
Vapor Density (bp, lb./ft <sup>3</sup> )	0.294
Heat of Vaporization (bp, BTU/lb.)	103.8
Global Warming Potential (CO <sub>2</sub> = 1.0)	1274
ASHRAE Standard 34 Safety Rating	A1