

# Pressure Temperature Charts



°F	°C	R-449A Liquid	R-449A Vapor
-40	-40.0	4.8	0.0
-35	-37.2	7.4	2.0
-30	-34.4	10.2	4.4
-25	-31.7	13.3	6.9
-20	-28.9	16.7	9.8
-15	-26.1	20.5	12.9
-10	-23.3	24.6	16.3
-5	-20.6	29.0	20.1
0	-17.8	33.8	24.1
5	-15.0	39.0	28.6
10	-12.2	44.6	33.4
15	-9.4	50.6	38.6
20	-6.7	57.1	44.3
25	-3.9	64.0	50.4
30	-1.1	71.5	56.9
35	1.7	79.5	64.0
40	4.4	88.0	71.6
45	7.2	97.1	79.7
50	10.0	107	88.4
55	12.8	117	97.7

°F	°C	R-449A Liquid	R-449A Vapor
60	15.6	128	108
65	18.3	140	118
70	21.1	152	129
75	23.9	165	141
80	26.7	179	154
85	29.4	193	167
90	32.2	208	182
95	35.0	224	197
100	37.8	241	213
105	40.6	259	229
110	43.3	278	247
115	46.1	297	266
120	48.9	318	286
125	51.7	339	307
130	54.4	362	329
135	57.2	385	352
140	60.0	410	376
145	62.8	435	402
150	65.6	462	429

Vapor Pressure in PSIG

## Refrigerant Boiling Point

Refrigerant		BP
R-449A	R-134a (25.7%), R-1234yf (25.3%), R-125 (24.7%), R-32 (24.3%) 1,1,1,2-Tetrafluoroethane, 2,3,3,3-Tetrafluoroprop-1-ene, Pentafluoroethane, Difluoromethane	-50.7°F

## Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-449A	#/cu. ft.	87.26	83.11	78.63	73.69	67.96	60.79
	#/gal.	11.66	11.11	10.51	9.85	9.08	8.13

## Physical Properties

	R-449A
Environmental Classification	HFC/HFO Zeotropic Blend
Molecular Weight	87.2
Boiling Point (1atm, °F)	-50.7
Critical Pressure (psia)	655
Critical Temperature (°F)	178.7
Critical Density (lb./ft <sup>3</sup> )	29.06
Vapor Density (bp, lb./ft <sup>3</sup> )	0.297
Heat of Vaporization (bp, BTU/lb.)	101.1
Global Warming Potential (CO <sub>2</sub> = 1.0)	1282
ASHRAE Standard 34 Safety Rating	A1