

# Pressure Temperature Charts



°F	°C	R-404A
-40	-40.0	4.3
-35	-37.2	6.8
-30	-34.4	9.5
-25	-31.7	12.5
-20	-28.9	15.7
-15	-26.1	19.3
-10	-23.3	23.2
-5	-20.6	27.5
0	-17.8	32.1
5	-15.0	37
10	-12.2	42.4
15	-9.4	48.2
20	-6.7	54.5
25	-3.9	61.2
30	-1.1	68.4
35	1.7	76.1
40	4.4	84.4
45	7.2	93.2
50	10.0	103
55	12.8	113

°F	°C	R-404A
60	15.6	123
65	18.3	135
70	21.1	147
75	23.9	159
80	26.7	173
85	29.4	187
90	32.2	202
95	35.0	218
100	37.8	234
105	40.6	252
110	43.3	270
115	46.1	289
120	48.9	310
125	51.7	331
130	54.4	353
135	57.2	377
140	60.0	401
145	62.8	426
150	65.6	453

Vapor Pressure in PSIG

## Refrigerant Boiling Point

Refrigerant	Components	BP
R-404A	R-143a (52%), R-125 (44%), R-134a (4%) 1,1,1-Trifluoroethane, Pentafluoroethane, 1,1,1,2-Tetrafluoroethane	-51.8°F

## Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-404A	#/cu. ft.	-	80.4	75.9	70.8	64.8	56.7
	#/gal.	-	10.7	10.1	9.5	8.7	7.6

## Physical Properties

	R-404A
Environmental Classification	HFC
Molecular Weight	97.6
Boiling Point (1atm,°F)	-51.8
Critical Pressure (psia)	548.2
Critical Temperature (°F)	162.5
Critical Density (lb./ft <sup>3</sup> )	35.84
Vapor Density (bp,lb./ft <sup>3</sup> )	0.342
Heat of Vaporization (bp,BTU/lb.)	86.1
Global Warming Potential (CO <sub>2</sub> = 1.0)	3900
ASHRAE Standard 34 Safety Rating	A1