

# Pressure Temperature Charts



°F	°C	R-454C
-40	-40.0	4.3
-35	-37.2	6.8
-30	-34.4	9.5
-25	-31.7	12.4
-20	-28.9	15.7
-15	-26.1	19.2
-10	-23.3	23.0
-5	-20.6	27.3
0	-17.8	31.8
5	-15.0	36.6
10	-12.2	41.9
15	-9.4	47.5
20	-6.7	53.6
25	-3.9	60.1
30	-1.1	67.0
35	1.7	74.4
40	4.4	82.3
45	7.2	90.8
50	10	99.7
55	12.8	109.2

°F	°C	R-454C
60	15.6	119.2
65	18.3	129.9
70	21.1	141.2
75	23.9	153.1
80	26.7	165.6
85	29.4	178.8
90	32.2	192.7
95	35.0	207.3
100	37.8	222.7
105	40.6	238.8
110	43.3	255.6
115	46.1	273.3
120	48.9	291.7
125	51.7	311.0
130	54.4	331.1
135	57.2	352.1
140	60.0	373.9
145	62.8	396.5
150	65.6	420.1

Vapor Pressure in PSIG

## Refrigerant Boiling Point

Refrigerant:	Components:	BP (0 PSIG):
R-454C	R-32 (21.5%, <b>Difluoromethane</b> ), R-1234yf (78.5%, <b>2,3,3,3-Tetrafluoropropene</b> )	-50.0

## Liquid Density

Refrigerant:	Liquid Density:	-80°F	-40°F	0°F	40°F	80°F	120°F
R-454C	lb/cu. ft.	82.5	78.7	74.6	70.0	64.7	58.1
	lb/gal.	11.3	10.5	10.0	9.4	8.6	7.8

## Physical Properties

	R-454C
Environmental Classification	HFC/HFO Zeotropic Blend
Molecular Weight	90.8 g/mol
Boiling Point (1 atm, °F)	-50.0
Critical Pressure (psia)	626.4
Critical Temperature (°F)	186.2
Critical Density (lb./ft <sup>3</sup> )	28.8
Vapor Density (bp, lb./ft <sup>3</sup> )	0.2
Liquid Heat of Vaporization (bp, BTU/lb.)	59.7
Ozone Depletion Potential (CFC 11 - 1.0)	0
Global Warming Potential (CO <sub>2</sub> = 1.0)	148
ASHRAE Standard 34 Safety Rating	A2L