

Pressure Temperature Charts



°F	°C	R-455A
-40	-40.0	10.4
-35	-37.2	13.4
-30	-34.4	16.7
-25	-31.7	20.3
-20	-28.9	24.2
-15	-26.1	28.5
-10	-23.3	33.0
-5	-20.6	38.0
0	-17.8	43.3
5	-15.0	49.0
10	-12.2	55.1
15	-9.4	61.6
20	-6.7	68.7
25	-3.9	76.1
30	-1.1	84.1
35	1.7	92.5
40	4.4	101.5
45	7.2	111.1
50	10	121.1
55	12.8	131.8

°F	°C	R-455A
60	15.6	143.1
65	18.3	155.0
70	21.1	167.6
75	23.9	180.8
80	26.7	194.6
85	29.4	209.2
90	32.2	224.5
95	35.0	240.5
100	37.8	257.3
105	40.6	274.8
110	43.3	293.1
115	46.1	312.2
120	48.9	332.0
125	51.7	352.7
130	54.4	374.2
135	57.2	396.5
140	60.0	419.5
145	62.8	443.4
150	65.6	468

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant:	Components:	BP (0 PSIG):
R-455A	R-1234yf (75.5%, 2,3,3,3-Tetrafluoropropene), R-32 (21.5%, Difluoromethane), R-744 (3%, Carbon Dioxide)	-61.7

Liquid Density

Refrigerant:	Liquid Density:	-80°F	-40°F	0°F	40°F	80°F	120°F
R-455A	lb./cu. ft.	82.2	78.4	74.2	69.5	64.1	57.3
	lb./gal.	11.0	10.5	9.9	9.3	8.6	7.7

Physical Properties

	R-455A
Environmental Classification	HFC/HFO Zeotropic Blend
Molecular Weight	87.5 g/mol
Boiling Point (1 atm, °F)	-61.8
Critical Pressure (psia)	675
Critical Temperature (°F)	186.1
Critical Density (lb./ft ³)	28.4
Vapor Density (bp, lb./ft ³)	0.3
Liquid Heat of Vaporization (bp, BTU/lb.)	102.8
Ozone Depletion Potential (CFC 11 - 1.0)	0
Global Warming Potential (CO ₂ = 1.0)	146
ASHRAE Standard 34 Safety Rating	A2L