



Pressure Temperature Charts

°F	°C	R-452A Liquid	R-452A Vapor
-40	-40.0	5.7	2.4
-35	-37.2	8.5	4.7
-30	-34.4	11.4	7.3
-25	-31.7	14.7	10.2
-20	-28.9	18.2	13.3
-15	-26.1	22.1	16.7
-10	-23.3	26.4	20.4
-5	-20.6	31.0	24.4
0	-17.8	35.9	28.8
5	-15.0	41.3	33.6
10	-12.2	47.1	38.8
15	-9.4	53.4	44.4
20	-6.7	60.1	50.4
25	-3.9	67.3	56.9
30	-1.1	75.0	63.8
35	1.7	83.2	71.3
40	4.4	92.0	79.2
45	7.2	101.0	87.8
50	10.0	111.0	96.9
55	12.8	122.0	107.0

°F	°C	R-452A Liquid	R-452A Vapor
60	15.6	133.0	117.0
65	18.3	145.0	128.0
70	21.1	157.0	140.0
75	23.9	171.0	152.0
80	26.7	185.0	165.0
85	29.4	199.0	179.0
90	32.2	215.0	194.0
95	35.0	231.0	209.0
100	37.8	248.0	226.0
105	40.6	267.0	243.0
110	43.3	286.0	261.0
115	46.1	305.0	281.0
120	48.9	326.0	301.0
125	51.7	348.0	322.0
130	54.4	371.0	345.0
135	57.2	395.0	369.0
140	60.0	420.0	394.0

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant	Components	BP (0 PSIG):
R-452A	R-125 (59%), R-1234yf (30%), R-32 (11%) Pentafluoroethane, 2,3,3,3-Tetrafluoroprop-1-ene, Difluoromethane	-52.6°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-452A	#/cu. ft.	91.03	86.58	81.77	76.37	69.99	61.69
	# / gal.	12.17	11.57	10.93	10.21	9.36	8.25

Physical Properties

	R-452A
Environmental Classification	HFC/HFO Zeotropic Blend
Molecular Weight	103.5 g/mol
Boiling Point (1atm, °F)	-52.6
Critical Pressure (psia)	580.4
Critical Temperature (°F)	166.8
Critical Density (lb./ft ^3)	30.98
Vapor Density (bp, lb./ft ^3)	0.305
Heat of Vaporization (bp, BTU/lb.)	83.04
Global Warming Potential (CO2 = 1.0)	1945
ASHRAE Standard 34 Safety Rating	A1

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