



Pressure Temperature Charts

°F	°C	R-450A Liquid	R-450A Vapor
-40	-40.0	16.5	16.9
-35	-37.2	14.4	14.9
-30	-34.4	12.2	12.6
-25	-31.7	9.6	10.2
-20	-28.9	6.7	7.3
-15	-26.1	3.5	4.3
-10	-23.3	0.0	0.8
-5	-20.6	1.9	1.5
0	-17.8	4.0	3.6
5	-15.0	6.3	5.8
10	-12.2	8.9	8.3
15	-9.4	11.6	11.0
20	-6.7	14.6	13.9
25	-3.9	17.9	17.1
30	-1.1	21.4	20.6
35	1.7	25.2	24.3
40	4.4	29.4	28.4
45	7.2	33.8	32.8
50	10.0	38.6	37.5
55	12.8	43.7	42.5

°F	°C	R-450A Liquid	R-450A Vapor
60	15.6	49.2	47.9
65	18.3	55.1	53.7
70	21.1	61.4	59.9
75	23.9	68.1	66.5
80	26.7	75.2	73.5
85	29.4	82.8	81.0
90	32.2	90.9	89.0
95	35.0	99.4	97.4
100	37.8	109.0	106.0
105	40.6	118.0	116.0
110	43.3	128.0	126.0
115	46.1	139.0	136.0
120	48.9	150.0	148.0
125	51.7	162.0	159.0
130	54.4	175.0	172.0
135	57.2	188.0	185.0
140	60.0	202.0	199.0

**Vapor Pressure in PSIG
In Vacuum (inches in Hg)**

Refrigerant Boiling Point

Refrigerant	Components	BP (0 PSIG):
R-450A	R-1234ze (58%), R-134A (42%) Trans-1,3,3,3-Tetrafluoroprop-1-ene, 1,1,1,2-Tetrafluoroethane	-9.6°F

Liquid Density

Refrigerant		-80°	-40°F	0°F	40°F	80°F	120°F
R-450A	#/cu. ft.	89.59	85.87	81.96	77.77	73.13	67.76
	# / gal.	11.98	11.49	10.96	10.40	9.78	9.06

Physical Properties

	R-450A
Environmental Classification	HFC/HFO Zeotropic Blend
Molecular Weight	108.6 g/mol
Boiling Point (1atm, °F)	-9.6
Critical Pressure (psia)	554
Critical Temperature (°F)	219.9
Critical Density (lb./ft ^3)	30.73
Vapor Density (bp, lb./ft ^3)	0.3398
Heat of Vaporization (bp, BTU/lb.)	87.55
Global Warming Potential (CO2 = 1.0)	547
ASHRAE Standard 34 Safety Rating	A1

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