

# Pressure Temperature Charts



°F	°C	R-123
-20	-28.9	27.8
-15	-26.1	27.4
-10	-23.3	26.9
-5	-20.6	26.4
0	-17.8	25.9
5	-15.0	25.2
10	-12.2	24.5
15	-9.4	23.8
20	-6.7	22.8
25	-3.9	21.8
30	-1.1	20.7
35	1.7	19.5
40	4.4	18.1
45	7.2	16.6
50	10.0	14.9
55	12.8	13
60	15.6	11.2
65	18.3	8.9

°F	°C	R-123
70	21.1	6.5
75	23.9	4.1
80	26.7	1.2
85	29.4	0.9
90	32.2	2.5
95	35.0	4.3
100	37.8	6.1
105	40.6	8.1
110	43.3	10.3
115	46.1	12.6
120	48.9	15.1
125	51.7	17.8
130	54.4	20.6
135	57.2	23.6
140	60.0	26.8
145	62.8	30.2
150	65.6	33.9

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

## Refrigerant Boiling Point

Refrigerant	Components	BP
R-123	Dichlorotrifluoroethane	82.1°F

## Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-123	#/cu. ft.	-	-	97.92	94.60	91.12	87.45
	#/gal.	-	-	13.09	12.65	12.18	11.69

## Physical Properties

	R-123
Environmental Classification	HCFC
Molecular Weight	152.9
Boiling Point (1atm,°F)	82.1
Critical Pressure (psia)	531.1
Critical Temperature (°F)	362.6
Critical Density (lb./ft <sup>3</sup> )	34.3
Vapor Density (bp,lb./ft <sup>3</sup> )	0.404
Heat of Vaporization (bp,BTU/lb.)	73.2
Global Warming Potential (CO <sub>2</sub> = 1.0)	77
ASHRAE Standard 34 Safety Rating	B1