

# Pressure Temperature Charts



°F	°C	R-23
-120	-84.4	4
-115	-81.7	0.3
-110	-78.9	2.9
-105	-76.1	5.8
-100	-73.3	9
-95	-70.6	12.7
-90	-67.8	16.7
-85	-65.0	21.3
-80	-62.2	26.3
-75	-59.4	31.8
-70	-56.7	37.9
-65	-53.9	44.6
-60	-51.1	52
-55	-48.3	60
-50	-45.6	68.7
-45	-42.8	78.1
-40	-40.0	88.3
-35	-37.2	99.4
-30	-34.4	111
-25	-31.7	124
-20	-28.9	138

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

## Refrigerant Boiling Point

Refrigerant	Components	BP
R-23	R-23 (100%) Trifluoromethane	-115.6°F

## Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-23	#/cu. ft.	85.6	79.26	72.03	62.35	-	-
	#/gal.	11.26	10.46	9.502	8.225	-	-

## Physical Properties

	R-23
Environmental Classification	HFC
Molecular Weight	70
Boiling Point (1atm,°F)	-115.6
Critical Pressure (psia)	701.4
Critical Temperature (°F)	78.7
Critical Density (lb./ft <sup>3</sup> )	32.8
Vapor Density (bp,lb./ft <sup>3</sup> )	0.29
Heat of Vaporization (bp,BTU/lb.)	102.7
Global Warming Potential (CO <sub>2</sub> = 1.0)	14800
ASHRAE Standard 34 Safety Rating	A1