

Pressure Temperature Charts



°F	°C	R-503
-120	-84.4	3.1
-115	-81.7	6
-110	-78.9	9.3
-105	-76.1	12.9
-100	-73.3	16.9
-95	-70.6	21.4
-90	-67.8	26.3
-85	-65.0	31.8
-80	-62.2	37.7
-75	-59.4	44.2
-70	-56.7	51.3
-65	-53.9	59
-60	-51.1	67.3
-55	-48.3	76.4
-50	-45.6	86.1
-45	-42.8	96.6
-40	-40.0	108
-35	-37.2	120
-30	-34.4	133
-25	-31.7	147
-20	-28.9	161

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant	Components	BP
R-503	R-13 (59.9%), R-23 (40.1%) Chlorotrifluoromethane, Trifluoromethane	-126.1°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-503	#/cu. ft.	86.4	80.3	72.3	61.1	-	-
	#/gal.	11.6	10.7	9.7	8.2	-	-

Physical Properties

	R-503
Environmental Classification	CFC
Molecular Weight	82.3
Boiling Point (1atm,°F)	-126.1
Critical Pressure (psia)	618.6
Critical Temperature (°F)	65.2
Critical Density (lb./ft ³)	34.4
Vapor Density (bp,lb./ft ³)	0.373
Heat of Vaporization (bp,BTU/lb.)	77.1
Global Warming Potential (CO ₂ = 1.0)	14560
ASHRAE Standard 34 Safety Rating	A1