

Pressure Temperature Charts



°F	°C	R-113
-20	-28.9	29.1
-15	-26.1	28.9
-10	-23.3	28.7
-5	-20.6	28.5
0	-17.8	28.2
5	-15.0	27.9
10	-12.2	27.6
15	-9.4	27.2
20	-6.7	26.8
25	-3.9	26.3
30	-1.1	25.8
35	1.7	25.2
40	4.4	24.5
45	7.2	23.8
50	10.0	22.9
55	12.8	22.2
60	15.6	21
65	18.3	19.9

°F	°C	R-113
70	21.1	18.7
75	23.9	17.3
80	26.7	15.9
85	29.4	14.3
90	32.2	12.5
95	35.0	10.6
100	37.8	8.6
105	40.6	6.4
110	43.3	4
115	46.1	1.4
120	48.9	0.7
125	51.7	2.2
130	54.4	3.7
135	57.2	5.4
140	60.0	7.2
145	62.8	9.2
150	65.6	11.2

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant	Components	BP
R-113	R-113 (100%) Trichlorotrifluoroethane	117.7°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-113	#/cu. ft.	-	-	103.6	100.6	97.5	94.1
	#/gal.	-	-	13.9	13.5	13	12.6

Physical Properties

	R-113
Environmental Classification	CFC
Molecular Weight	187.40
Boiling Point (1atm,°F)	117.7
Critical Pressure (psia)	495.0
Critical Temperature (°F)	417.0
Vapor Density (bp,lb./ft ³)	0.4649
Heat of Vaporization (bp,BTU/lb.)	63.1
Ozone Depletion Potential (CFC 11 -1.0)	0.800
Global Warming Potential (CO ₂ = 1.0)	6130
ASHRAE Standard 34 Safety Rating	A1