



Pressure Temperature Charts

°F	°C	R-744
-40	-40	131.0
-35	-37.2	146.5
-30	-34.4	163.1
-25	-31.7	181.0
-20	-28.9	200.2
-15	-26.1	220.8
-10	-23.3	242.7
-5	-20.6	266.1
0	-17.8	291.0
5	-15.0	317.5
10	-12.2	345.7
15	-9.4	375.6
20	-6.7	407.2
25	-3.9	440.7
30	-1.1	476.1
35	1.7	513.4
40	4.4	552.9
45	7.2	594.5
50	10.0	638.3
55	12.8	684.5

°F	°C	R-744
60	15.6	733.1
65	18.3	784.3
70	21.1	838.1
75	23.9	894.9
80	26.7	954.9
85	29.4	1018.0

Vapor Pressure in PSIG

Refrigerant Boiling Point

Refrigerant	Components	BP (0 PSIG):
R-744	R-744 (100%) CO2	-109.2°F

Liquid Density

Refrigerant	Liquid Density:	-80°F	-40°F	-0°F	40°F	80°F	120°F
R-744	lb/cu. ft.	74.8	69.7	63.8	56.2	42.6	35.0
	lb/gal.	10.0	9.3	8.5	7.5	5.7	4.7

Physical Properties

	R-744
Environmental Classification	Specialty, Natural
Molecular Weight	44.01 g/mol
Boiling Point (1atm, °F)	-126.1
Critical Pressure (psia)	1070.0
Critical Temperature (°F)	87.8
Critical Density (lb./ft ^3)	29.2
Vapor Density (bp, lb./ft ^3)	0.2
Liquid Heat of Vaporization (bp, BTU/lb.)	-73.1
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO2 = 1.0)	1
ASHRAE Standard 34 Safety Rating	A1

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