

Physical Properties of Refrigerants

R408a

Environmental Classification	HCFC
Molecular Weight	78
Boiling Point (°C), 101.3KPa	-49.8
Critical Pressure (psia)	641.6
Critical Temperature (°C)	182
Critical Density (lb./ft ³)	30
Liquid Density, 30 °C, (KG / M ³)	66.9
Vapor Density (bp, lb./ft ³)	3.25
Heat of Vaporization (bp, BTU/lb.)	96.74
Specific Heat, Liquid, 30 °C, (KJ / KG .K)	0.36
Specific Heat Vapor (1atm, 20 °F, BTU/lb. °F)	0.1901
Ozone Depletion Potential (CFC 11 -1.0)	0.024
Global Warming Potential (CO2 = 1.0)	3152
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp Chart

Temp °C	R-408 psig
-40.0	2.8
-37.2	5.1
-34.4	7.6
-31.7	10.4
-28.9	13.5
-26.1	16.8
-23.3	20.4
-20.6	24.4
-17.8	28.7
-15.0	33.3
-12.2	38.3
-9.4	43.7
-6.7	49.5
-3.9	55.8
-1.1	62.5
1.7	69.7
4.4	77.4
7.2	85.6
10.0	94.3
12.8	104
15.6	114
18.3	124
21.1	135
23.9	147
26.7	159
29.4	173
32.2	186
35.0	201
37.8	217
40.6	233
43.3	250
46.1	268
48.9	287
51.7	307
54.4	327
57.2	349
60.0	372
62.8	394
65.6	418

This information is believed to be accurate and reliable but is provided for guidance only.

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