

### Physical Properties of Refrigerants

### R407C

Environmental Classification	HFC
Molecular Weight	86.2
Boiling Point (°C),101.3KPa	-43.6
Critical Pressure (psia)	672.1
Critical Temperature (°C)	87.3
Critical Density(lb./ft <sup>3</sup> )	32
Liquid Density , 30 °C, ( KG / M <sup>3</sup> )	1129.3
Vapor Density (bp,lb./ft <sup>3</sup> )	0.289
Heat of Vaporization(bp,BTU/lb.)	106.7
Specific Heat , Liquid , 30 °C , ( KJ / KG .K )	1.55
Specific Head Vapor (1atm, 20 °F,BTU/lb. °F)	0.1987
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO2 = 1.0)	1770
ASHRAE Standard 34 Safety Rating	A1

### Pressure- Temp Chart

Temp °C	R-407 psig	
	Liquid	Vapor
-40.0	3.0	4.4
-37.2	5.4	0.6
-34.4	8.0	1.8
-31.7	10.9	4.1
-28.9	14.1	6.6
-26.1	17.6	9.4
-23.3	21.3	12.5
-20.6	25.4	15.9
-17.8	29.9	19.6
-15.0	34.7	23.6
-12.2	39.9	28.0
-9.4	45.6	32.8
-6.7	51.6	38.0
-3.9	58.2	43.6
-1.1	65.2	49.6
1.7	72.6	56.1
4.4	80.7	63.1
7.2	89.2	70.6
10.0	98.3	78.7
12.8	108	87.3
15.6	118	96.8
18.3	129	106
21.1	141	117
23.9	153	128
26.7	166	140
29.4	180	153
32.2	195	166
35.0	210	181
37.8	226	196
40.6	243	211
43.3	261	229
46.1	280	247
48.9	300	266
51.7	321	286
54.4	342	307
57.2	365	329
60.0	389	353
62.8	411	375
65.6	437	400

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

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