

Physical Properties of Refrigerants	R-501
Environmental Classification	HCFC
Molecular Weight	95.4
Boiling Point (1atm, °F)	-125.3
Critical Pressure (psia)	556.1
Critical Temperature (°F)	53.7
Critical Density(lb./ft ³)	35.6
Liquid Density (20 °F,lb./ft ³)	65.4
Vapor Density (bp,lb./ft ³)	0.426
Heat of Vaporization(bp,BTU/lb.)	71.4
Specific Head Liquid(20 °F, BTU/lb. °F)	0.4221
Specific Head Vapor (1atm, 20 °F,BTU/lb. °F)	0.1701
Ozone Depletion Potential (CFC 11 -1.0)	0
Global Warming Potential (CO ₂ = 1.0)	13400
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp
Chart

Temp °F	R-501 psig
-40	1
-35	3.1
-30	5.4
-25	7.9
-20	10.6
-15	13.6
-10	16.9
-5	20.4
0	24.3
5	20.4
10	33
15	37.8
20	43
25	48.7
30	54.7
35	61.1
40	68
45	75.4
50	83.2
55	91.5
60	100.4
65	109.4
70	119.8
75	130.3
80	141.5
85	153.3
90	165.7
95	178.8
100	192.6
105	207.1
110	222.4
115	238.4
120	255.2
125	272.9
130	291.3
135	310.6
140	330.8
145	352
150	374

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