

Physical Properties of Refrigerants	R-500
Environmental Classification	CFC
Molecular Weight	99.3
Boiling Point (1atm, °F)	-28.5
Critical Pressure (psia)	605.2
Critical Temperature (°F)	215.8
Critical Density(lb./ft ³)	30.7
Liquid Density (20 °F,lb./ft ³)	73
Vapor Density (bp,lb./ft ³)	0.329
Heat of Vaporization(bp,BTU/lb.)	86.4
Specific Head Liquid(20 °F, BTU/lb. °F)	0.2782
Specific Head Vapor (1atm, 20 °F,BTU/lb. °F)	0.1725
Ozone Depletion Potential (CFC 11 -1.0)	0.66
Global Warming Potential (CO ₂ = 1.0)	8077
ASHRAE Standard 34 Safety Rating	A1

Pressure- Temp
Chart

Temp °F	R-500psig
-40	7.6"
-35	4.6"
-30	1.2"
-25	1.2
-20	3.2
-15	5.4
-10	7.8
-5	10.4
0	13.3
5	16.4
10	19.7
15	23.4
20	27.3
25	31.5
30	36
35	40.9
40	46.1
45	51.6
50	57.6
55	63.9
60	70.6
65	77.8
70	85.4
75	93.5
80	102
85	111
90	121
95	131
100	141
105	152
110	164
115	177
120	189
125	203
130	217
135	232
140	248

R-500

⚠ WARNING: Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

This information is believed to be accurate and reliable but is provided for guidance only. A-Gas accepts no responsibility and the user assumes all risks and liability for use of this information.