

Pressure Temperature Charts



°F	°C	R-422D Liquid	R-422D Vapor
-40	-40.0	2.4	2.3
-35	-37.2	4.6	0.8
-30	-34.4	7.1	3
-25	-31.7	9.9	5.4
-20	-28.9	12.9	8.1
-15	-26.1	16.2	11
-10	-23.3	19.8	14.3
-5	-20.6	23.7	17.8
0	-17.8	27.9	21.7
5	-15.0	32.5	25.8
10	-12.2	37.5	30.4
15	-9.4	42.8	35.3
20	-6.7	48.5	40.7
25	-3.9	54.7	46.4
30	-1.1	61.3	52.6
35	1.7	68.4	59.3
40	4.4	75.9	66.4
45	7.2	84	74
50	10.0	92.6	82.2
55	12.8	102	90.9

°F	°C	R-422D Liquid	R-422D Vapor
60	15.6	111	100
65	18.3	122	110
70	21.1	133	121
75	23.9	144	132
80	26.7	156	144
85	29.4	169	156
90	32.2	183	170
95	35.0	197	184
100	37.8	212	198
105	40.6	228	214
110	43.3	245	231
115	46.1	262	248
120	48.9	281	266
125	51.7	300	286
130	54.4	320	306
135	57.2	341	327
140	60.0	364	350
145	62.8	387	373
150	65.6	411	398

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant	Components	BP
R-422D	R-125 (65.1%), R-134a (31.5%), R-600a (3.4%) Pentafluoroethane, 1,1,1,2-Tetrafluoroethane, Isobutane	-45.8°F

Physical Properties

	R-422D
Environmental Classification	HFC
Molecular Weight	109.9
Boiling Point (1atm, °F)	-45.8
Critical Pressure (psia)	566.2
Critical Temperature (°F)	175.2
Critical Density (lb./ft ³)	33.0
Vapor Density (bp, lb./ft ³)	0.372
Heat of Vaporization (bp, BTU/lb.)	81.78
Global Warming Potential (CO ₂ = 1.0)	2729.12
ASHRAE Standard 34 Safety Rating	A1