

Pressure Temperature Charts



°F	°C	R-401B Liquid	R-401B Vapor
-40	-40.0	6.5	11.8
-35	-37.2	3.3	9.1
-30	-34.4	0.2	6.1
-25	-31.7	2.1	2.8
-20	-28.9	4.3	0.5
-15	-26.1	6.6	2.5
-10	-23.3	9.2	4.7
-5	-20.6	12	7.1
0	-17.8	15.1	9.7
5	-15.0	18.4	12.6
10	-12.2	22	15.8
15	-9.4	25.9	19.2
20	-6.7	30.1	23
25	-3.9	34.6	27
30	-1.1	39.5	31.4
35	1.7	44.8	36.1
40	4.4	50.4	41.1
45	7.2	56.4	46.6
50	10.0	62.8	52.4
55	12.8	69.6	58.7

°F	°C	R-401B Liquid	R-401B Vapor
60	15.6	76.9	65.4
65	18.3	84.7	72.5
70	21.1	92.9	80.1
75	23.9	102	88.2
80	26.7	111	96.8
85	29.4	121	106
90	32.2	131	116
95	35.0	142	126
100	37.8	153	137
105	40.6	166	148
110	43.3	178	160
115	46.1	192	173
120	48.9	206	187
125	51.7	220	201
130	54.4	236	216
135	57.2	252	231
140	60.0	269	248
145	62.8	287	265
150	65.6	305	305

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

Refrigerant Boiling Point

Refrigerant		BP
R-401B	R-22 (61%), R-124 (28%), R-152a (11%) Chlorodifluoromethane, 1-Chloro-1,2,2,2-Tetrafluoroethane, 1,1-Difluoroethane	-32.3°F

Liquid Density

Refrigerant		-80°F	-40°F	0°F	40°F	80°F	120°F
R-401B	#/cu. ft.	90.59	86.80	82.83	78.57	73.84	68.41
	#/gal.	12.11	11.60	11.07	10.50	9.87	9.15

Physical Properties

	R-401B
Environmental Classification	HCFC
Molecular Weight	92.8
Boiling Point (1atm, °F)	-32.3
Critical Pressure (psia)	679.1
Critical Temperature (°F)	218.3
Critical Density (lb./ft ³)	31.1
Vapor Density (bp, lb./ft ³)	0.303
Heat of Vaporization (bp, BTU/lb.)	98.2
Global Warming Potential (CO ₂ = 1.0)	1288
ASHRAE Standard 34 Safety Rating	A1