

# Pressure Temperature Charts



°F	°C	R-409A Liquid	R-409A Vapor
-30	-34.4	0.2	9.9
-25	-31.7	1.8	7
-20	-28.9	3.9	3.8
-15	-26.1	6.2	0.3
-10	-23.3	8.7	1.7
-5	-20.6	11.4	3.8
0	-17.8	14.4	6.1
5	-15.0	17.6	8.6
10	-12.2	21.1	11.4
15	-9.4	24.9	14.4
20	-6.7	29	17.6
25	-3.9	33.4	21.2
30	-1.1	38.1	25
35	1.7	43.2	29.2
40	4.4	48.6	33.6
45	7.2	54.4	38.5
50	10.0	60.6	43.6
55	12.8	67.2	49.2

°F	°C	R-409A Liquid	R-409A Vapor
60	15.6	74.2	55.2
65	18.3	81.7	61.5
70	21.1	89.6	68.4
75	23.9	98	75.6
80	26.7	107	83.4
85	29.4	116	91.6
90	32.2	126	100
95	35.0	137	110
100	37.8	148	120
105	40.6	159	130
110	43.3	172	141
115	46.1	184	153
120	48.9	198	165
125	51.7	212	178
130	54.4	227	192
135	57.2	242	207
140	60.0	258	222

Vapor Pressure in PSIG

In Vacuum (inches in Hg)

## Refrigerant Boiling Point

Refrigerant	Components	BP
R-409A	R-22 (60%), R-124 (25%), R-142b (15%) Chlorodifluoromethane, 1-Chloro-1,2,2,2-Tetrafluoroethane, 1-Chloro-1,1 Difluoroethane	-31.8°F

## Physical Properties

	R-409A
Environmental Classification	HCFC
Molecular Weight	97.4
Boiling Point (1atm,°F)	-31.8
Critical Pressure (psia)	680.7
Critical Temperature (°F)	224.4
Critical Density (lb./ft <sup>3</sup> )	31.7
Vapor Density (bp,lb./ft <sup>3</sup> )	0.313
Heat of Vaporization (bp,BTU/lb.)	94.75
Global Warming Potential (CO <sub>2</sub> = 1.0)	1584.75
ASHRAE Standard 34 Safety Rating	A1