R-401A PT Chart

Saturation pressure vs temperature · Safety class A1 · Blend

°F / psig
°C / kPa

°F and psig

°F	Liquid bubble, psig	Vapor dew, psig
-40	*8.3"*	*13.8"*
-35	*5.3"*	*11.4"*
-30	*2.0"*	*8.6"*
-25	0.9	*5.6"*
-20	2.9	*2.2"*
-15	5.1	0.7
-10	7.5	2.8
-5	10.1	5.0
0	13.0	7.4
5	16.1	10.1
10	19.5	13.0
15	23.2	16.2
20	27.1	19.6
25	31.4	23.4
30	36.0	27.4
35	40.9	31.8
40	**46.2**	**36.5**
45	51.8	41.6
50	57.9	47.0
55	64.3	52.8
60	71.2	59.0
65	78.5	65.7
70	86.3	72.8
75	94.5	80.3
80	103.2	88.4
85	112.4	96.9
90	122.2	106.0
95	132.5	115.6
100	**143.3**	**125.7**
105	154.7	136.5
110	166.8	147.8
115	179.4	159.8
120	192.7	172.4
125	206.6	185.7
130	221.2	199.7
135	236.5	214.5
140	252.5	229.9
145	269.3	246.2
150	286.8	263.2

°C and kPa (gauge)

°C	Liquid bubble, kPa	Vapor dew, kPa
-40	-28.3	-46.8
-35	-9.0	-31.2
-30	14.0	-12.3
-25	41.4	10.5
-20	73.5	37.6
-15	111.0	69.7
-10	154.4	107.1
-5	204.3	150.7
0	261.3	200.9
5	326.1	258.4
10	399.1	323.9
15	481.2	398.2
20	573.0	481.8
25	675.1	575.6
30	788.3	680.4
35	913.3	796.8
40	1050.8	925.9
45	1201.6	1068.3
50	1366.3	1225.1
55	1545.9	1397.1
60	1741.1	1585.3
65	1952.7	1790.7

Liquid = bubble point (use for subcooling). Vapor = dew point (use for superheat).

°F table: italic " = inches of mercury (inHg) vacuum.

°C table: negative kPa = vacuum.

Rows every 5° plus the first and last row. Every degree is on the website.

Source: manufacturer and supplier charts (Honeywell, Arkema, National Refrigerants). Reference only: always verify with the manufacturer's data and your gauges.