R-448A PT Chart

Gauge & Wire

Saturation pressure in psig. Liquid = bubble point (use for subcooling), Vapor = dew point (use for superheat). * = inches of mercury vacuum.

°F	°C	Liquid	Vapor	°F	°C	Liquid	Vapor	°F	°C	Liquid	Vapor	°F	°C	Liquid	Vapor
-40	**-40.0**	**4.9**	**0.0**	8	-13.3	42.8	31.6	56	13.3	120.5	100.3	104	40.0	258.0	227.8
-39	-39.4	5.4	0.4	9	-12.8	43.9	32.6	57	13.9	122.7	102.3	105	40.6	261.7	231.3
-38	-38.9	5.9	0.8	**10**	**-12.2**	**45.1**	**33.6**	58	14.4	124.9	104.3	106	41.1	265.4	234.8
-37	-38.3	6.4	1.2	11	-11.7	46.3	34.6	59	15.0	127.1	106.3	107	41.7	269.1	238.3
-36	-37.8	7.0	1.7	12	-11.1	47.5	35.7	**60**	**15.6**	**129.4**	**108.4**	108	42.2	272.9	241.9
-35	-37.2	7.5	2.1	13	-10.6	48.7	36.7	61	16.1	131.7	110.5	109	42.8	276.7	245.5
-34	-36.7	8.1	2.5	14	-10.0	49.9	37.8	62	16.7	134.0	112.6	**110**	**43.3**	**280.5**	**249.2**
-33	-36.1	8.6	3.0	15	-9.4	51.2	38.9	63	17.2	136.3	114.7	111	43.9	284.4	252.9
-32	-35.6	9.2	3.5	16	-8.9	52.5	40.0	64	17.8	138.7	116.8	112	44.4	288.3	256.6
-31	-35.0	9.8	3.9	17	-8.3	53.8	41.1	65	18.3	141.1	119.0	113	45.0	292.2	260.4
-30	**-34.4**	**10.4**	**4.4**	18	-7.8	55.1	42.3	66	18.9	143.5	121.2	114	45.6	296.2	264.2
-29	-33.9	11.0	4.9	19	-7.2	56.4	43.4	67	19.4	146.0	123.4	115	46.1	300.2	268.1
-28	-33.3	11.6	5.4	**20**	**-6.7**	**57.8**	**44.6**	68	20.0	148.5	125.7	116	46.7	304.3	272.0
-27	-32.8	12.2	5.9	21	-6.1	59.2	45.8	69	20.6	151.0	128.0	117	47.2	308.4	276.0
-26	-32.2	12.9	6.5	22	-5.6	60.5	47.0	**70**	**21.1**	**153.5**	**130.3**	118	47.8	312.5	280.0
-25	-31.7	13.5	7.0	23	-5.0	61.9	48.2	71	21.7	156.1	132.7	119	48.3	316.7	284.0
-24	-31.1	14.2	7.5	24	-4.4	63.4	49.4	72	22.2	158.7	135.1	**120**	**48.9**	**320.9**	**288.1**
-23	-30.6	14.9	8.1	25	-3.9	64.8	50.7	73	22.8	161.3	137.5	121	49.4	325.2	292.2
-22	-30.0	15.6	8.6	26	-3.3	66.3	52.0	74	23.3	163.9	139.9	122	50.0	329.5	296.4
-21	-29.4	16.3	9.2	27	-2.8	67.7	53.3	75	23.9	166.6	142.4	123	50.6	333.8	300.6
-20	**-28.9**	**17.0**	**9.8**	28	-2.2	69.2	54.6	76	24.4	169.3	144.9	124	51.1	338.2	304.8
-19	-28.3	17.7	10.4	29	-1.7	70.8	55.9	77	25.0	172.1	147.4	125	51.7	342.6	309.1
-18	-27.8	18.5	11.0	**30**	**-1.1**	**72.3**	**57.3**	78	25.6	174.8	149.9	126	52.2	347.1	313.5
-17	-27.2	19.2	11.7	31	-0.6	73.9	58.7	79	26.1	177.7	152.5	127	52.8	351.6	317.8
-16	-26.7	20.0	12.3	32	0.0	75.5	60.1	**80**	**26.7**	**180.5**	**155.1**	128	53.3	356.1	322.3
-15	-26.1	20.8	13.0	33	0.6	77.1	61.5	81	27.2	183.4	157.8	129	53.9	360.7	326.8
-14	-25.6	21.6	13.7	34	1.1	78.7	62.9	82	27.8	186.2	160.4	**130**	**54.4**	**365.3**	**331.3**
-13	-25.0	22.4	14.3	35	1.7	80.4	64.4	83	28.3	189.2	163.2	131	55.0	370.0	335.9
-12	-24.4	23.2	15.0	36	2.2	82.1	65.9	84	28.9	192.1	165.9	132	55.6	374.7	340.5
-11	-23.9	24.1	15.7	37	2.8	83.8	67.4	85	29.4	195.1	168.7	133	56.1	379.4	345.2
-10	**-23.3**	**24.9**	**16.4**	38	3.3	85.5	69.0	86	30.0	198.1	171.5	134	56.7	384.2	349.9
-9	-22.8	25.8	17.1	39	3.9	87.2	70.5	87	30.6	201.2	174.3	135	57.2	389.0	354.7
-8	-22.2	26.7	17.9	**40**	**4.4**	**89.0**	**72.1**	88	31.1	204.2	177.2	136	57.8	393.9	359.5
-7	-21.7	27.6	18.6	41	5.0	90.8	73.7	89	31.7	207.4	180.1	137	58.3	398.8	364.4
-6	-21.1	28.5	19.4	42	5.6	92.6	75.3	**90**	**32.2**	**210.5**	**183.0**	138	58.9	403.8	369.3
-5	-20.6	29.4	20.2	43	6.1	94.4	77.0	91	32.8	213.7	186.0	139	59.4	408.8	374.3
-4	-20.0	30.3	21.0	44	6.7	96.3	78.6	92	33.3	216.9	189.0	**140**	**60.0**	**413.8**	**379.3**
-3	-19.4	31.3	21.8	45	7.2	98.2	80.3	93	33.9	220.1	192.0	141	60.6	418.9	384.4
-2	-18.9	32.2	22.6	46	7.8	100.1	82.0	94	34.4	223.4	195.1	142	61.1	424.0	389.6
-1	-18.3	33.2	23.5	47	8.3	102.0	83.7	95	35.0	226.7	198.2	143	61.7	429.2	394.8
0	**-17.8**	**34.2**	**24.3**	48	8.9	104.0	85.4	96	35.6	230.0	201.3	144	62.2	434.4	400.0
1	-17.2	35.2	25.2	49	9.4	106.0	87.2	97	36.1	233.4	204.5	145	62.8	439.7	405.3
2	-16.7	36.2	26.1	**50**	**10.0**	**108.0**	**89.0**	98	36.7	236.8	207.8	146	63.3	445.0	410.7
3	-16.1	37.3	27.0	51	10.6	110.0	90.8	99	37.2	240.2	211.0	147	63.9	450.4	416.1
4	-15.6	38.3	27.9	52	11.1	112.1	92.7	**100**	**37.8**	**243.7**	**214.3**	148	64.4	455.8	421.5
5	-15.0	39.4	28.8	53	11.7	114.2	94.6	101	38.3	247.2	217.6	149	65.0	461.2	427.0
6	-14.4	40.5	29.7	54	12.2	116.3	96.5	102	38.9	250.8	221.0	**150**	**65.6**	**466.7**	**432.6**
7	-13.9	41.6	30.7	55	12.8	118.4	98.4	103	39.4	254.4	224.4				

Source: Arkema, Forane Refrigerants Pressure Temperature Chart (05-2025) (NIST REFPROP 10); whole-degree rows interpolated.
Checked against: Solstice Advanced Materials (formerly Honeywell) (max difference 0.17 psi).
Gauge pressure relative to 14.696 psia (sea level). Reference only: follow the equipment manufacturer's charging instructions.