



# Pressure Temperature Chart

for Altitude 5,000 Feet above Sea Level

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Temperature °F	REFRIGERANT (Sporlan Letter Code)							
	22 (V)	134a (J)	401A (X)	404A (S)	407A (V)	407C (N)	410A (Z)	507 (P)
			Dew Point					
-60	6.9	16.7	16.1	2.3	9.4	11.0	2.7	0.8
-55	4.2	15.3	14.6	0.6	6.9	8.6	5.0	1.4
-50	1.1	13.7	12.9	2.4	3.9	6.0	7.5	3.4
-45	1.2	11.9	11.0	4.5	0.7	3.0	10.2	5.5
-40	3.1	9.8	8.8	6.8	1.5	0.2	13.3	7.9
-38	3.9	8.9	7.9	7.8	2.3	0.9	14.6	8.9
-36	4.7	7.9	6.9	8.8	3.1	1.7	15.9	10.0
-34	5.6	6.9	5.8	9.9	3.9	2.5	17.3	11.1
-32	6.5	5.9	4.8	11.0	4.8	3.3	18.8	12.3
-30	7.4	4.8	3.6	12.1	5.8	4.1	20.3	13.5
-28	8.4	3.7	2.5	13.3	6.7	5.0	21.9	14.7
-26	9.4	2.5	1.2	14.5	7.7	5.9	23.5	16.0
-24	10.5	1.3	0.1	15.8	8.8	6.9	25.2	17.3
-22	11.6	0.0	0.7	17.1	9.9	7.9	27.0	18.7
-20	12.7	0.7	1.4	18.5	11.0	9.0	28.8	20.1
-18	13.9	1.4	2.1	19.9	12.2	10.0	30.7	21.6
-16	15.1	2.1	2.8	21.4	13.4	11.2	32.7	23.1
-14	16.4	2.8	3.6	22.9	14.7	12.4	34.7	24.7
-12	17.7	3.6	4.4	24.5	16.0	13.6	36.8	26.3
-10	19.0	4.4	5.3	26.1	17.4	14.8	39.0	28.0
-8	20.4	5.3	6.1	27.8	18.8	16.2	41.2	29.8
-6	21.9	6.1	7.0	29.5	20.3	17.5	43.5	31.6
-4	23.4	7.1	7.9	31.3	21.8	18.9	45.9	33.4
-2	24.9	8.0	8.9	33.2	23.4	20.4	48.4	35.3
0	26.5	9.0	9.9	35.1	25.0	21.9	50.9	37.3
1	27.3	9.5	10.4	36.1	25.8	22.7	52.2	38.3
2	28.2	10.0	11.0	37.1	26.7	23.5	53.6	39.4
3	29.0	10.5	11.5	38.1	27.6	24.3	54.9	40.4
4	29.9	11.0	12.0	39.1	28.5	25.1	56.3	41.5
5	30.8	11.6	12.6	40.2	29.4	26.0	57.7	42.5
6	31.6	12.1	13.2	41.2	30.3	26.8	59.1	43.6
7	32.5	12.7	13.7	42.3	31.2	27.7	60.5	44.8
8	33.5	13.3	14.3	43.4	32.2	28.6	62.0	45.9
9	34.4	13.8	14.9	44.5	33.1	29.5	63.4	47.0
10	35.3	14.4	15.5	45.6	34.1	30.4	64.9	48.2
11	36.3	15.0	16.1	46.8	35.1	31.3	66.4	49.4
12	37.3	15.6	16.7	47.9	36.1	32.2	68.0	50.6
13	38.3	16.3	17.4	49.1	37.1	33.2	69.5	51.8

Temperature °F	REFRIGERANT (Sporlan Letter Code)							
	22 (V)	134a (J)	401A (X)	404A (S)	407A (V)	407C (N)	410A (Z)	507 (P)
			Dew Point / Bubble Point					
14	39.3	16.9	18.0	50.3	38.2	34.2	71.1	53.0
15	40.3	17.5	18.7	51.5	39.2	35.2	72.7	54.2
16	41.3	18.2	19.4	52.7	40.3	36.2	74.4	55.5
17	42.4	18.9	20.0	54.0	41.4	37.2	76.0	56.8
18	43.4	19.5	20.7	55.2	42.5	38.2	77.7	58.1
19	44.5	20.2	21.4	56.5	43.7	39.3	79.4	59.4
20	45.6	20.9	22.1	57.8	44.8	40.4	81.2	60.8
21	46.7	21.6	22.9	59.1	46.0	41.5	82.9	62.1
22	47.8	22.4	23.6	60.5	47.2	42.6	84.7	63.5
23	49.0	23.1	24.3	61.8	48.4	43.7	86.5	64.9
24	50.1	23.8	25.1	63.2	49.6	44.8	88.3	66.3
25	51.3	24.6	25.9	64.6	50.8	46.0	90.2	67.7
26	52.5	25.4	26.7	66.0	52.1	47.2	92.1	69.2
27	53.7	26.2	27.5	67.4	53.4	48.4	94.0	70.7
28	54.9	27.0	28.3	68.9	54.7	49.6	95.9	72.2
29	56.2	27.8	29.1	70.3	56.0	50.8	97.9	73.7
30	57.5	28.6	29.9	71.8	57.3	52.1	99.9	75.2
31	58.7	29.4	30.8	73.3	58.7	53.3	101.9	76.8
32	60.0	30.3	31.6	74.9	60.1	54.6	103.9	78.4
33	61.3	31.1	32.5	76.4	61.5	55.9	106.0	80.0
34	62.7	32.0	33.4	78.0	62.9	57.3	108.1	81.6
35	64.0	32.9	34.3	79.6	64.3	58.6	110.2	83.2
36	65.4	33.8	35.2	81.2	65.8	60.0	112.4	84.9
37	66.8	34.7	36.1	82.8	67.3	61.4	114.6	86.6
38	68.2	35.6	37.1	84.5	68.8	62.8	116.8	88.3
39	69.6	36.6	38.0	86.2	70.3	64.2	119.0	90.0
40	71.1	37.5	39.0	87.9	71.9	65.7	121.3	91.7
42	74.0	39.5	41.0	91.3	75.0	68.6	125.9	95.3
44	77.0	41.5	43.0	94.9	78.3	71.7	130.7	99.0
46	80.1	43.6	45.1	98.5	81.6	74.8	135.5	102.7
48	83.3	45.7	47.3	102.3	85.1	78.0	140.5	106.6
50	86.6	47.9	49.5	106.1	88.6	81.3	145.7	110.5
52	89.9	50.2	62.9	111.7	110.7	104.2	150.9	114.5
54	93.3	52.5	65.5	115.8	114.8	108.1	156.3	118.7
56	96.9	54.9	68.2	119.9	119.0	112.1	161.8	122.9
58	100.5	57.4	70.9	124.2	123.3	116.2	167.4	127.2
60	104.1	59.9	73.7	128.5	127.7	120.4	173.2	131.7
62	107.9	62.5	76.6	133.0	132.2	124.8	179.1	136.2

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			Bubble Point					
64	111.8	65.2	79.5	137.5	136.8	129.2	185.2	140.9
66	115.7	67.9	82.5	142.2	141.5	133.7	191.4	145.6
68	119.8	70.7	85.6	146.9	146.4	138.3	197.8	150.5
70	123.9	73.6	88.8	151.8	151.3	143.0	204.3	155.5
72	128.2	76.6	92.0	156.8	156.4	147.9	210.9	160.6
74	132.5	79.6	95.3	161.9	161.6	152.8	217.7	165.8
76	137.0	82.7	98.7	167.1	166.9	157.9	224.7	171.1
78	141.5	85.9	102.2	172.4	172.3	163.0	231.8	176.6
80	146.1	89.2	105.7	177.9	177.8	168.3	239.0	182.1
82	150.9	92.5	109.3	183.5	183.5	173.7	246.5	187.8
84	155.7	96.0	113.1	189.2	189.2	179.3	254.1	193.6
86	160.7	99.5	116.9	195.0	195.1	184.9	261.8	199.6
88	165.7	103.1	120.7	200.9	201.2	190.7	269.8	205.6
90	170.9	106.8	124.7	207.0	207.3	196.6	277.9	211.8
92	176.2	110.6	128.7	213.2	213.6	202.6	286.1	218.1
94	181.6	114.5	132.9	219.5	220.1	208.8	294.6	224.6
96	187.1	118.4	137.1	225.9	226.6	215.0	303.2	231.2
98	192.7	122.5	141.4	232.5	233.3	221.5	312.0	237.9
100	198.4	126.7	145.8	239.3	240.1	228.0	321.0	244.8
102	204.3	130.9	150.3	246.1	247.1	234.7	330.2	251.8
104	210.2	135.2	154.9	253.1	254.2	241.5	339.6	259.0
106	216.3	139.7	159.6	260.3	261.5	248.4	349.2	266.3
108	222.5	144.2	164.4	267.6	268.9	255.5	359.0	273.7
110	228.9	148.9	169.3	275.0	276.4	262.8	368.9	281.3
112	235.3	153.6	174.3	282.6	284.1	270.1	379.1	289.1
114	241.9	158.5	179.3	290.4	292.0	277.6	389.5	297.0
116	248.6	163.4	184.5	298.3	300.0	285.3	400.1	305.1
118	255.5	168.5	189.8	306.3	308.1	293.1	410.9	313.3
120	262.5	173.7	195.2	314.6	316.5	301.1	421.9	321.7
125	280.5	187.1	209.1	335.8	337.9	321.7	450.4	343.4
130	299.4	201.2	223.7	358.1	360.4	343.2	480.4	366.3
135	319.2	216.1	239.0	381.6	384.0	365.8	511.9	390.3
140	339.9	231.7	255.0	406.2	408.7	389.5	545.0	415.5
145	361.5	248.2	271.8	432.1	434.4	414.2	579.8	442.0
150	384.2	265.4	289.3	459.3	461.4	440.0	616.4	469.9
155	407.8	283.5	307.6	488.0	489.5	466.9	654.9	499.5
160	432.6	302.5	326.7	518.3	518.9	495.1	*	*
165	458.4	322.5	346.6	*	549.4	524.4	*	*

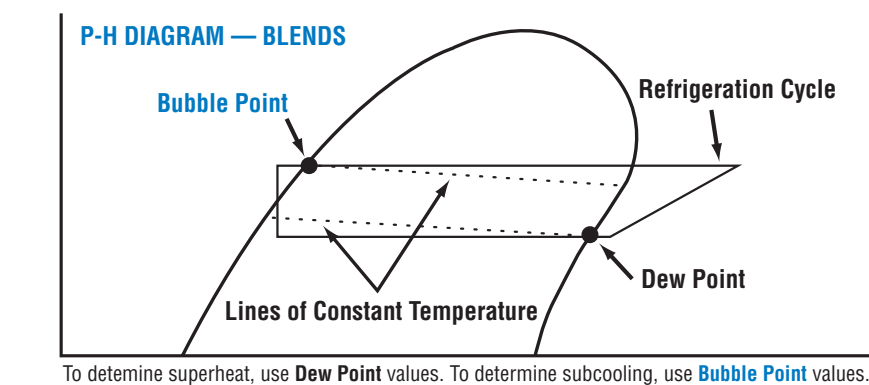
Vacuum - Inches of Mercury - *Italic Figures*  
 Pressure - Pounds per square inch gauge

Bubble (Liquid) Point: **Black Values**  
 To determine subcooling, use bubble (liquid) values

Dew (Vapor) Point: **Blue Values**  
 To determine superheat, use dew (vapor) values

\*Exceeds critical temperature

### Explanation of Bubble/Dew Points for Refrigerant Blends



### What's your Superheat???

