

Blue Sky Refrigerants

Blue Sky 502a

Pressure Temperature Chart

Temp		R502	502a	
			Bubble	Dew
C	F	psi	psi	psi
-40	-40	4	7	3
-38	-36	6	9	4
-36	-33	8	11	6
-34	-29	10	13	8
-32	-26	12	15	9
-30	-22	14	17	11
-28	-18	17	19	13
-26	-15	19	22	16
-24	-11	22	24	18
-22	-8	25	27	20
-20	-4	28	30	23
-18	0	31	33	26
-16	3	34	36	28
-14	7	38	40	31
-12	10	42	43	35
-10	14	46	47	38
-8	18	50	51	42
-6	21	54	55	45
-4	25	59	60	49
-2	28	64	64	54
0	32	69	69	58
2	36	74	74	63
4	39	80	79	67
6	43	86	84	72
8	46	92	90	78
10	50	98	96	83
12	54	105	102	89
14	57	112	108	95
16	61	119	115	101
18	64	126	121	107
20	68	134	128	114
22	72	142	136	121
24	75	150	143	128
26	79	159	151	136
28	82	168	159	143
30	86	178	168	152
32	90	187	176	160
34	93	197	185	169
36	97	208	195	178
38	100	219	205	187
40	104	230	215	197
42	108	241	225	207
44	111	253	235	217
46	115	266	246	228
48	118	278	258	239
50	122	292	269	250
52	126	305	281	262
54	129	319	293	274
56	133	334	306	287

**Blue Sky Refrigerants
Blue Sky 22a**

Pressure Temperature Chart

Temp (° F)	Pressure (psig)	Temp (° F)	Pressure (psig)
-44	0	84	137.9
-40	0.03	88	146.5
-36	0.03	92	155.4
-32	0.03	96	164.7
-28	6.6	100	174.3
-24	8.6	104	184.4
-20	10.7	108	194.8
-16	13	112	205.6
-12	15.5	116	216.8
-8	18.1	120	228.4
-4	20.8	124	240.5
0	23.7	128	252.9
4	26.9	132	265.9
8	30.2	136	279.2
12	33.6	140	293
16	37.3	144	307.3
20	41.2	148	322.1
24	45.3	152	337.4
28	49.7	156	353.1
32	54.2	160	369.4
36	59	164	386.2
40	64.1	168	403.6
44	69.4	172	421.5
48	74.9	176	440
52	80.8	180	459.1
56	86.8	184	478.8
60	93.2	188	499.2
64	99.9	192	520.3
68	106.9	196	542.1
72	114.1	200	564.7
76	121.7	204	588.4
80	129.6		

**Blue Sky Refrigerants
Blue Sky Industrial 12a**

Pressure Temperature Chart

Temp ° F	Pressure PSI
-20	6.23
-15	8.59
-10	11.16
-5	13.95
0	16.97
5	20.23
10	23.74
15	27.53
20	31.6
25	35.96
30	40.64
35	45.64
40	50.98
55	69.17
60	76.01
65	83.26
70	90.94
75	99.06
80	107.64
85	116.69
90	126.24
95	136.28
100	146.84
105	157.94
110	169.58
115	181.79
120	194.58
125	207.97
130	221.96

**Blue Sky Refrigerants
Blue Sky Industrial 134a**

Pressure Temperature Chart

Temp ° F	Pressure PSI
-20	6.23
-15	8.59
-10	11.16
-5	13.95
0	16.97
5	20.23
10	23.74
15	27.53
20	31.6
25	35.96
30	40.64
35	45.64
40	50.98
55	69.17
60	76.01
65	83.26
70	90.94
75	99.06
80	107.64
85	116.69
90	126.24
95	136.28
100	146.84
105	157.94
110	169.58
115	181.79
120	194.58
125	207.97
130	221.96

Blue Sky Refrigerant Chart					
Equivalent Wight Installation Chart					
Blue Sky Refrigerant		HFC 134a		CFC 12	
Ounces	Grams	Ounces	Grams	Ounces	Grams
3	85	8	227	9	255
6	170	16	454	18	510
9	255	24	680	27	765
12	340	32	907	36	1,020
15	425	40	1,134	45	1,276
18	510	48	1,361	54	1,531
21	595	56	1,588	63	1,786
24	680	64	1,814	72	2,041

COMPARISON TEST RESULTS

MODEL/TYPE	FREON R-22						BLUE SKY 22a					
	Pressures		Temperature		Amps	D/B	Pressures		Temperature		Amps	D/B
	High Side	Low Side	° F	Amb. ° F			High Side	Low Side	° F	Amb. ° F		
Carrier 520	250	68	60	76	36.0	100	225	68.0	56	76	28.8	96
Carrier 500	250	75	62	76	27.7	96	200	57.3	58	78	20.3	93
Payne 1/3 HP	213	55	54	76	10.2	88	180	52	52	76	7.8	86
Lennox	210	58	62	76	25.8	89	175	46	58	76	17.8	87
Lennox 2	200	45.5	57	76	22.9	90	190	49	50	78	19.6	89
Lennox	225	65	58	78	26.5	90	185	52	52	78	18.9	88
Carrier 34, 5 Ton	290	65	71.2	106	32.2	N/A	269	65	64.9	110	28.7	N/A
Fedder 3 Ton	340	70	61.5	101	19.5	N/A	260	61	60.3	101	14.8	N/A
Amana 1 ¼ Ton	N/A	69.7	77.2	104	9.1	69	N/A	75	74.3	118	8.1	60
Payne 5 Ton	N/A	N/A	72	98	25.0	N/A	N/A	75	74.3	118	8.1	60
Comp. Tecumensen 5 Ton	255	60	48.5	N/A	18.1	84	220	61	45.0	N/A	16.8	82
Westinghouse 5 Ton	245	54	52.0	110	27.0	80	245	60	49.0	110	25.0	76
Comp. Amana 5 Ton	270	64	52.0	N/A	22.0	N/A	261	64	46.0	N/A	20.8	N/A
Trane 3 Ton	25	61	50.0	N/A	13.1	N/A	205	61	50.0	N/A	12	N/A
Lennox 3 Ton	265	65	62	N/A	20.0	N/A	245	64	57	N/A	18.5	N/A
Trane 5 Ton	225	66	61	88	24.5	N/A	220	66.5	50	N/A	22.5	N/A
Window Unit 2 Ton	N/A	51	44	82	9.8	N/A	N/A	51	39	85	8.5	N/A