



Temp		Refrigerant							
F	C	HFC 410A	HCFC 22	HFC 407C	HFC 134a	CFC 12	CFC 502	HFC 404A	HFC 507
-60	-51.1	0.2	11.9	16.0	21.8	19.0	7.6	7.3	5.8
-55	-48.3	2.4	9.2	13.6	20.3	17.3	4.3	3.9	2.2
-50	-45.6	4.9	6.1	11.0	18.7	15.4	0.7	0.1	0.9
-45	-42.8	7.7	2.7	8.0	16.9	13.3	1.6	2.0	3.0
-40	-40	10.7	0.6	4.6	14.8	11.0	3.8	4.3	5.4
-38	-38.9	12.0	1.4	3.2	13.9	10.0	4.7	5.3	6.4
-36	-37.8	13.4	2.2	1.6	13.0	8.9	5.7	6.3	7.5
-34	-36.7	14.8	3.1	0.0	12.0	7.8	6.7	7.4	8.6
-32	-35.6	16.2	4.0	0.8	10.9	6.7	7.7	8.5	9.8
-30	-34.4	17.8	4.9	1.6	9.8	5.5	8.8	9.6	11.0
-28	-33.3	19.3	5.9	2.5	8.7	4.3	9.9	10.8	12.2
-26	-32.2	21.0	6.9	3.5	7.5	3.0	11.1	12.0	13.5
-24	-31.1	22.7	8.0	4.4	6.3	1.7	12.3	13.3	14.8
-22	-30	24.4	9.1	5.4	5.0	0.3	13.5	14.6	16.2
-20	-28.9	26.3	10.2	6.5	3.7	0.5	14.8	16.0	17.6
-18	-27.8	28.1	11.4	7.6	2.3	1.3	16.1	17.4	19.1
-16	-26.7	30.1	12.6	8.7	0.8	2.0	17.5	18.9	20.6
-14	-25.6	32.1	13.9	9.9	0.4	2.8	18.9	20.4	22.2
-12	-24.4	34.2	15.2	11.1	1.1	3.6	20.4	22.0	23.8
-10	-23.3	36.4	16.5	12.3	1.9	4.5	21.9	23.6	25.5
-8	-22.2	38.6	17.9	13.7	2.8	5.3	23.5	25.3	27.3
-6	-21.1	40.9	19.4	15.0	3.6	6.2	25.1	27.0	29.1
-4	-20	43.3	20.9	16.4	4.6	7.2	26.8	28.8	30.9
-2	-18.9	45.8	22.4	17.9	5.5	8.1	28.5	30.7	32.8
0	-17.8	48.3	24.0	19.4	6.5	9.1	30.3	32.6	34.8
1	-17.2	49.6	24.9	20.2	7.0	9.6	31.2	33.6	35.8
2	-16.7	51.0	25.7	21.0	7.5	10.1	32.1	34.6	36.9
3	-16.1	52.3	26.5	21.8	8.0	10.7	33.1	35.6	37.9
4	-15.6	53.7	27.4	22.6	8.5	11.2	34.0	36.6	39.0
5	-15	55.0	28.3	23.5	9.1	11.7	35.0	37.7	40.0
6	-14.4	56.5	29.2	24.3	9.6	12.3	36.0	38.7	41.1
7	-13.9	57.9	30.1	25.2	10.2	12.9	37.0	39.8	42.2
8	-13.3	59.3	31.0	26.1	10.8	13.4	38.0	40.9	43.4
9	-12.8	60.8	31.9	27.0	11.3	14.0	39.0	42.0	44.5
10	-12.2	62.3	32.8	27.9	11.9	14.6	40.0	43.1	45.7
11	-11.7	63.8	33.6	28.8	12.5	15.2	41.1	44.3	46.8
12	-11.1	65.4	34.8	29.8	13.1	15.8	42.2	45.4	48.0

Temp		Refrigerant							
F	C	HFC 410A	HCFC 22	HFC 407C	HFC 134a	CFC 12	CFC 502	HFC 404A	HFC 507
13	-10.6	66.9	35.8	30.7	13.8	16.4	43.3	46.6	49.3
14	-10	68.5	36.8	31.7	14.4	17.0	44.4	47.8	50.5
15	-9.4	70.1	37.8	32.7	15.0	17.7	45.5	49.0	51.7
16	-8.9	71.7	38.8	33.7	15.7	18.3	46.6	50.2	53.0
17	-8.3	73.4	39.9	34.7	16.4	19.0	47.8	51.5	54.3
18	-7.8	75.1	40.9	35.7	17.0	19.6	48.9	52.7	55.6
19	-7.2	76.8	42.0	36.8	17.7	20.3	50.1	54.0	56.9
20	-6.7	78.5	43.1	37.9	18.4	21.0	51.3	55.3	58.2
21	-6.1	80.3	44.2	39.0	19.1	21.7	52.5	56.6	59.6
22	-5.6	82.0	45.3	40.1	19.9	22.4	53.8	58.0	61.0
23	-5	83.8	46.5	41.2	20.6	23.1	55.0	59.3	62.4
24	-4.4	85.7	47.6	42.3	21.3	23.8	56.3	60.7	63.8
25	-3.9	87.5	48.8	43.5	22.1	24.6	57.6	62.1	65.2
26	-3.3	89.4	50.0	44.7	22.9	25.3	58.9	63.5	66.7
27	-2.8	91.3	51.2	45.9	23.7	26.1	60.2	64.9	68.2
28	-2.2	93.2	52.4	47.1	24.5	26.8	61.5	66.4	69.7
29	-1.7	95.2	53.7	48.3	25.3	27.6	62.9	67.8	71.2
30	-1.1	97.2	55.0	49.6	26.1	28.4	64.2	69.3	72.7
31	-0.6	99.2	56.2	50.8	26.9	29.2	65.6	70.8	74.3
32	0	101.2	57.5	52.1	27.8	30.0	67.0	72.4	75.8
33	0.6	103.3	58.8	53.4	28.6	30.8	68.4	73.9	77.4
34	1.1	105.4	60.2	54.8	29.5	31.7	69.9	75.5	79.0
35	1.7	107.5	61.5	56.1	30.4	32.5	71.4	77.1	80.7
36	2.2	109.7	62.9	57.5	31.3	33.4	72.8	78.7	82.3
37	2.8	111.9	64.3	58.9	32.2	34.2	74.3	80.3	84.0
38	3.3	114.1	65.7	60.3	33.1	35.1	75.9	82.0	85.7
39	3.9	116.3	67.1	61.7	34.1	36.0	77.4	83.7	87.5
40	4.4	118.6	68.6	63.2	35.0	36.9	79.0	85.4	89.2
42	5.6	123.2	71.5	66.1	37.0	38.7	82.1	88.8	92.8
44	6.7	127.9	74.5	69.2	39.0	40.6	85.4	92.4	96.4
46	7.8	132.8	77.6	72.3	41.1	42.6	88.7	96.0	100.2
48	8.9	137.8	80.8	75.5	43.2	44.6	92.1	99.8	104.0
50	10	142.9	84.1	78.8	45.4	46.6	95.6	103.6	108.0
52	11.1	148.1	87.4	101.7	47.7	48.7	99.2	109.2	112.0
54	12.2	153.5	90.8	105.6	50.0	50.9	102.9	113.3	116.1
56	13.3	159.0	94.4	109.6	52.4	53.1	106.7	117.4	120.4
58	14.4	164.7	98.0	113.7	54.9	55.3	110.5	121.7	124.7
60	15.6	170.4	101.6	117.9	57.4	57.6	114.5	126.0	129.1
62	16.7	176.3	105.4	122.3	60.0	60.0	118.5	130.5	133.7
64	17.8	182.4	109.3	126.7	62.7	62.4	122.6	135.0	138.3
66	18.9	188.6	113.2	131.2	65.4	64.9	126.8	139.7	143.1
68	20.0	194.9	117.3	135.8	68.2	67.5	131.1	144.4	147.9

Temp		Refrigerant							
F	C	HFC 410A	HCFC 22	HFC 407C	HFC 134a	CFC 12	CFC 502	HFC 404A	HFC 507
70	21.1	201.4	121.4	140.5	71.1	70.1	135.6	149.3	152.9
72	22.2	208.0	125.7	145.4	74.1	72.7	140.1	154.3	158.0
74	23.3	214.8	130.3	150.3	77.1	75.5	144.7	159.4	163.2
76	24.4	221.8	134.5	155.4	80.2	78.2	149.4	164.6	168.5
78	25.6	228.9	139.0	160.5	83.4	81.1	154.2	169.9	174.0
80	26.7	236.1	143.6	165.8	86.7	84.0	159.1	175.4	179.5
82	27.8	243.6	148.4	171.2	90.0	87.0	164.1	181.0	185.2
84	28.9	251.2	153.2	176.8	93.5	90.0	169.2	186.7	191.0
86	30	258.9	158.2	182.4	97.0	93.2	174.5	192.5	197.0
88	31.1	266.8	163.2	188.2	100.6	96.3	179.8	198.4	203.0
90	32.2	274.9	168.4	194.1	104.3	99.6	185.3	204.5	209.2
92	33.3	283.2	173.7	200.1	108.1	102.9	190.8	210.7	215.5
94	34.4	291.6	179.1	206.3	112.0	106.3	196.5	217.0	222.0
96	35.6	300.3	184.6	212.5	115.9	109.8	202.3	223.4	228.6
98	36.7	309.1	190.2	219.0	120.0	113.3	208.2	230.0	235.3
100	37.8	318.1	195.9	225.5	124.2	116.9	214.3	236.8	242.2
102	38.9	327.2	201.8	232.2	128.4	120.6	220.4	243.6	249.2
104	40	336.6	207.7	239.0	132.7	124.4	226.7	250.6	256.3
106	41.1	346.2	213.8	245.9	137.2	128.2	233.1	257.8	263.7
108	42.2	355.9	220.0	253.0	141.7	132.1	239.6	256.1	271.1
110	43.3	365.9	226.4	260.3	146.4	136.1	246.3	272.5	278.7
112	44.4	376.1	232.8	267.6	151.1	140.2	253.0	280.1	286.5
114	45.6	386.4	239.4	275.1	156.0	144.3	260.0	287.9	294.4
116	46.7	397.0	246.1	282.8	160.9	148.6	267.0	295.8	302.4
118	47.8	407.8	253.0	290.6	166.0	152.9	274.2	303.8	310.7
120	48.9	418.8	260.0	298.6	171.2	157.3	281.5	312.1	319.1
125	51.7	447.4	278.0	319.2	184.6	168.6	300.4	333.3	340.8
130	54.4	477.4	296.9	340.7	198.7	180.5	320.2	355.6	363.6
135	57.2	508.9	316.7	363.3	213.6	193.0	340.9	379.1	387.6
140	60	542.0	337.4	387.0	229.2	206.0	362.6	403.7	412.8
145	62.8	576.8	359.0	411.7	245.7	219.7	385.3	429.6	439.3
150	65.6	613.4	381.7	437.5	262.9	233.9	409.0	456.8	467.3
155	68.3	652.0	405.3	464.4	281.0	248.8	433.9	485.5	**
160	71.1	**	430.1	492.6	300.0	264.3	459.9	515.8	**
165	73.9	**	455.9	521.9	320.0	280.5	487.2	**	**

** exceeds critical temperature