VIRGINIA AIR
VIRGINIA AIR DISTRIBUTORS, INC.

Pressure Temperature Chart

Temp. F	Pressure		Temp. F	Pressure	
	R22	R410A		R22	R410A
0	24.0	48.2	33	58.8	103.6
1	24.8	49.5	34	60.1	105.7
2	25.6	50.9	35	61.5	107.9
3	26.5	52.2	36	62.8	110.0
4	27.3	53.6	37	64.2	112.2
5	28.2	55.0	38	65.6	114.4
6	29.1	56.4	39	67.1	116.7
7	30.0	57.9	40	68.5	118.9
8	30.9	59.3	41	70.0	121.2
9	31.8	60.8	42	71.5	123.6
10	32.8	62.3	43	73.0	125.9
11	33.7	63.9	44	74.5	128.3
12	34.7	65.4	45	76.0	130.7
13	35.7	67.0	46	77.6	133.2
14	36.7	68.6	47	79.2	135.6
15	37.7	70.2	48	80.8	138.2
16	38.7	71.9	49	82.4	140.7
17	39.8	73.5	50	84.0	143.3
18	40.9	75.2	55	92.6	156.6
19	41.9	77.0	60	101.6	170.7
20	43.0	78.7	65	111.2	185.7
21	44.1	80.5	70	121.4	201.5
22	45.3	82.3	75	132.2	218.2
23	46.4	84.1	80	143.6	235.9
24	47.6	85.9	85	155.7	254.6
25	48.8	87.8	90	168.4	274.3
26	49.9	89.7	95	181.8	295.0
27	51.2	91.6	100	195.9	316.9
28	52.4	93.5	105	210.8	339.9
29	53.6	95.5	110	226.4	364.1
30	54.9	97.5	115	242.7	389.6
31	56.2	99.5	120	259.9	416.4
32	57.5	101.6	125	277.9	444.5

ENTHALPY CHART

WET BULB TO ENTHALPY CONVERSION

Wet bulb temperature in tenths of a degree Fahrenheit

WET BULB TEMPER-ATURE	.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
51	20.86	20.92	20.98	21.04	21.09	21.15	21.21	21.26	21.32	21.38
52	21.44	21.49	21.55	21.60	21.66	21.72	21.78	21.83	21.89	21.95
53	22.02	22.06	22.12	22.09	22.24	22.30	22.36	22.43	22.49	22.55
54	22.62	22.68	22.74	22.80	22.86	22.92	22.98	23.04	23.11	23.16
55	23.22	23.28	23.34	23.40	23.46	23.52	23.58	23.64	23.71	23.77
56	23.84	23.90	23.96	24.03	23.09	24.15	24.21	24.28	24.34	24.40
57	24.48	24.53	24.59	24.66	24.72	24.79	24.85	24.92	24.99	25.05
58	25.12	25.18	25.25	25.32	25.38	25.45	25.51	25.58	25.65	25.71
59	25.78	25.85	25.91	25.99	26.06	26.12	26.19	26.26	26.33	26.39
60	26.46	26.53	56.60	26.67	26.74	26.81	26.88	26.94	27.01	27.08
61	27.15	27.21	27.28	27.35	27.42	27.48	27.55	27.62	27.69	27.76
62	27.85	27.92	28.00	28.07	28.14	28.21	28.29	28.36	28.43	28.50
63	28.57	28.65	28.72	28.79	28.86	28.94	29.01	29.08	29.16	29.23
64	29.31	29.38	29.45	29.53	29.60	29.68	29.76	29.83	29.91	29.98
65	30.06	30.13	30.21	30.29	30.37	30.45	30.52	30.60	38.68	30.76
66	30.83	30.92	31.00	31.07	31.15	31.23	31.31	31.39	31.47	31.54
67	31.62	31.70	31.77	31.85	31.93	32.01	32.09	32.17	32.25	32.33
68	32.42	32.51	32.59	32.67	32.76	32.84	32.92	33.01	33.09	33.17
69	33.25	33.34	33.42	33.50	33.59	33.67	33.75	33.84	33.92	34.01
70	34.09	34.17	34.26	34.34	34.43	34.51	34.60	34.69	34.77	34.86
71	34.95	25.04	35.13	35.22	35.31	35.40	35.48	35.57	35.66	35.74
72	35.83	35.92	36.01	36.10	36.19	36.27	36.37	36.46	36.55	36.65
73	36.74	36.83	36.92	37.02	37.11	37.21	37.30	37.39	37.48	37.57
74	37.66	37.76	37.85	37.94	38.04	38.14	38.23	38.33	38.43	38.52
75	38.61	38.71	38.80	38.90	39.00	39.09	39.19	39.28	39.37	39.47
76	39.57	39.67	39.77	39.87	39.97	40.07	34.17	40.27	40.37	40.47
77	40.57	40.68	40.78	40.88	40.98	40.08	41.18	41.28	41.38	41.48
78	41.58	41.69	41.79	41.89	42.00	42.10	42.20	42.31	42.41	42.52
79	42.62	42.73	42.83	42.94	43.05	43.15	43.26	43.37	43.48	43.59
80	43.69	43.81	43.91	44.02	44.13	44.24	44.36	44.46	44.57	44.68
81	44.78	44.89	45.00	45.11	45.23	45.34	45.45	45.57	45.68	45.80
82	45.90	46.02	46.13	4.24	46.35	46.47	46.58	46.69	46.71	46.82
83	47.04	47.16	47.28	47.40	47.52	47.63	47.75	47.87	48.00	48.10
84	48.22	48.34	48.46	48.58	48.70	48.82	48.94	49.06	49.19	49.31
85	49.43	49.56	49.68	49.70	49.92	50.05	50.17	50.29	50.41	50.54

Measure any wet bulb temperature. Select the temperature from the left column, then the tenth of a degree from the columns to the right. This will be the heat content of one pound of air at the corresponding wet temperature.

BTUH (sensible heat) = CFM x 1.08 x ΔT

BTUH (total heat) = CFM x 4.5 x Enthalpy Difference

CFM = FPM x (Duct Area in square feet)

CFM = Volts x AMPS X 3.413 / 1.08 x ΔT

CFM = BTU Input x %eff / 1.08 x ΔT