



TEMPERATURE CONTROLLERS... PORTABLE CHILLERS... CENTRAL CHILLERS... PUMP TANK STATIONS... TOWER SYSTEMS...

SUBJECT: HEATER AMPERAGES

#7-C-175

1/25/1996

SINGLE PHASE - TOTAL AMPERAGE

K W	VOLTS										
	110	115	120	208	230	240	440	460	480	550	600
1.0	9.1	8.7	8.33	4.8	4.4	4.2	2.3	2.2	2.1	1.8	1.7
2.0	18.2	17.4	16.7	9.6	8.7	8.33	4.6	4.4	4.2	3.6	3.3
3.0	27.3	26.1	25.0	14.4	13.0	12.5	6.8	6.5	6.3	5.5	5.0
4.0	36.4	34.8	33.3	19.2	17.4	16.7	9.1	8.7	8.33	7.3	6.7
5.0	45.5	43.5	41.7	24.0	21.7	20.8	11.4	10.9	10.4	9.1	8.3
6.0	54.6	52.2	50.0	28.9	26.1	25.0	13.6	13.0	12.5	10.9	10.0
7.0	63.6	60.9	58.3	33.7	30.4	29.2	15.9	15.2	14.6	12.7	11.7
7.5	68.2	65.2	62.5	36.1	32.6	31.3	17.1	16.3	15.6	13.6	12.5
10.0	90.9	87.0	83.3	48.1	43.5	41.7	22.7	21.7	20.8	18.2	16.7

THREE PHASE - TOTAL AMPERAGE

K W	VOLTS							
	208	230	240	440	460	480	550	600
1.0	2.78	2.5	2.4	1.3	1.3	1.2	1.1	1.0
2.0	5.6	5.1	4.8	2.6	2.5	2.4	2.1	1.9
3.0	8.34	7.5	7.2	3.9	3.8	3.6	3.2	2.9
4.0	11.1	10.1	9.6	5.3	5.0	4.8	4.2	3.9
5.0	13.9	12.6	12.0	6.6	6.3	6.0	5.3	4.8
6.0	16.7	15.1	14.5	7.9	7.5	7.2	6.3	5.8
7.0	19.5	17.6	16.9	9.2	8.8	8.4	7.4	6.7
7.5	20.8	18.9	18.1	9.9	9.4	9.0	7.9	7.2
8.0	22.2	20.1	19.3	10.5	10.1	9.6	8.4	7.7
10.0	27.8	25.1	24.1	13.1	12.6	12.0	10.5	9.6
12.0	33.4	30.2	28.9	15.8	15.1	14.5	12.6	11.6
15.0	41.7	37.7	36.1	19.7	18.9	18.1	15.8	14.5
18.0	50.0	45.2	43.4	23.7	22.6	21.7	18.9	17.3
24.0	66.7	60.3	57.8	31.5	30.2	28.9	25.2	23.1
30.0	83.4	75.4	72.3	39.4	37.7	36.1	31.5	28.9
36.0	100.0	90.5	86.7	47.3	46.0	43.4	37.8	34.7
42.0	116.7	105.6	101.2	55.2	52.8	50.6	44.1	40.5
48.0	133.4	120.6	115.6	63.1	60.3	57.8	50.5	46.2
60.0	166.7	150.8	144.5	78.8	75.4	72.3	63.2	57.8
75.0	208.4	188.5	180.6	98.5	94.2	90.3	78.8	72.3
100.0	277.9	251.3	240.6	131.4	125.7	120.4	105.1	96.3

To Calculate Values Not Shown ... use Ohms Law.

Single Phase:
watts = volts x amps

Three Phase:
watts = 1.73 x volts x amps

Note: cycles do not influence this data.