



**Technical Data**  
**Calculate Amperage and Resistance**

Calculate Amperage (Amperes) for Electric Heaters					
KW	120Volt 1Ph	240Volt 1Ph	480Volt 1Ph	240Volt 3Ph	480Volt 3Ph
1	8.30	4.20	2.10	2.40	1.20
2	16.70	8.40	4.20	4.80	2.40
3	25.00	12.50	6.30	7.20	3.60
4	33.30	16.70	8.40	9.60	4.80
5	41.70	20.90	10.50	12.10	6.10
6	50.00	25.00	12.50	14.40	7.20
7	58.30	29.20	14.60	16.90	8.50
8	66.70	33.40	16.70	19.30	9.70
9	75.00	37.50	18.80	21.70	10.90
10	83.30	41.70	20.90	24.10	12.10
12	100.00	50.00	25.00	28.90	14.50
15	125.00	62.50	31.30	36.10	18.10
20	166.70	83.30	41.70	48.10	24.10
25	208.40	104.20	102.10	60.20	30.10
30	250.00	125.00	112.50	72.20	36.10
50	416.60	208.30	104.20	120.30	60.20
75	625.00	312.50	156.30	180.40	90.20
100	833.00	416.70	208.40	240.60	120.30

Calculate Resistance (Ohms) for Electric Heaters (Leg to Leg)					
KW	120Volt 1Ph	240Volt 1Ph	480Volt 1Ph	240Volt 3Ph	480Volt 3Ph
1	14.40	57.60	230.40	115.10	460.80
2	7.20	28.80	115.20	57.60	230.40
3	4.80	19.20	76.80	38.40	153.60
4	3.60	14.40	57.60	28.80	115.20
5	2.88	11.52	46.08	23.00	92.20
6	2.40	9.60	38.40	19.20	76.80
7	2.06	8.23	32.92	16.50	65.80
8	1.80	7.20	28.80	14.40	57.60
9	1.60	6.40	25.60	12.80	51.20
10	1.44	5.76	23.04	11.50	46.10
12	1.20	4.80	19.20	9.60	38.40
15	0.96	3.84	15.36	7.70	30.70
20	0.72	2.88	11.52	5.80	23.00
25	0.58	2.30	9.22	4.60	18.40
30	0.48	1.92	7.68	3.80	15.40
50	0.29	1.15	4.61	2.30	9.20
75	0.19	0.77	3.07	1.50	6.10