



International Temperature Control, Inc.

The Value Leader In Hot Runner Temperature Control Systems

ENGINEERING DATA SHEET

Wattage / Amperage / Resistance Conversion Chart

This informational "Rule of Thumb" chart shows the approximate relationship between wattage, amperage and ohms at various points
For a more accurate relationship, Ohm's law must be employed

This chart is based on an operational voltage of 240vac

Watts	Amps	Ohms	Watts	Amps	Ohms	Watts	Amps	Ohms	Watts	Amps	Ohms
50	0.21	1152.00	2900	12.08	19.86	5750	23.96	10.02	8600	35.83	6.70
100	0.42	576.00	2950	12.29	19.53	5800	24.17	9.93	8650	36.04	6.66
150	0.63	384.00	3000	12.50	19.20	5850	24.38	9.85	8700	36.25	6.62
200	0.83	288.00	3050	12.71	18.89	5900	24.58	9.76	8750	36.46	6.58
250	1.04	230.40	3100	12.92	18.58	5950	24.79	9.68	8800	36.67	6.55
300	1.25	192.00	3150	13.13	18.29	6000	25.00	9.60	8850	36.88	6.51
350	1.46	164.57	3200	13.33	18.00	6050	25.21	9.52	8900	37.08	6.47
400	1.67	144.00	3250	13.54	17.72	6100	25.42	9.44	8950	37.29	6.44
450	1.88	128.00	3300	13.75	17.45	6150	25.63	9.37	9000	37.50	6.40
500	2.08	115.20	3350	13.96	17.19	6200	25.83	9.29	9050	37.71	6.36
550	2.29	104.73	3400	14.17	16.94	6250	26.04	9.22	9100	37.92	6.33
600	2.50	96.00	3450	14.38	16.70	6300	26.25	9.14	9150	38.13	6.30
650	2.71	88.62	3500	14.58	16.46	6350	26.46	9.07	9200	38.33	6.26
700	2.92	82.29	3550	14.79	16.23	6400	26.67	9.00	9250	38.54	6.23
750	3.13	76.80	3600	15.00	16.00	6450	26.88	8.93	9300	38.75	6.19
800	3.33	72.00	3650	15.21	15.78	6500	27.08	8.86	9350	38.96	6.16
850	3.54	67.76	3700	15.42	15.57	6550	27.29	8.79	9400	39.17	6.13
900	3.75	64.00	3750	15.63	15.36	6600	27.50	8.73	9450	39.38	6.10
950	3.96	60.63	3800	15.83	15.16	6650	27.71	8.66	9500	39.58	6.06
1000	4.17	57.60	3850	16.04	14.96	6700	27.92	8.60	9550	39.79	6.03
1050	4.38	54.86	3900	16.25	14.77	6750	28.13	8.53	9600	40.00	6.00
1100	4.58	52.36	3950	16.46	14.58	6800	28.33	8.47	9650	40.21	5.97
1150	4.79	50.09	4000	16.67	14.40	6850	28.54	8.41	9700	40.42	5.94
1200	5.00	48.00	4050	16.88	14.22	6900	28.75	8.35	9750	40.63	5.91
1250	5.21	46.08	4100	17.08	14.05	6950	28.96	8.29	9800	40.83	5.88
1300	5.42	44.31	4150	17.29	13.88	7000	29.17	8.23	9850	41.04	5.85
1350	5.63	42.67	4200	17.50	13.71	7050	29.38	8.17	9900	41.25	5.82
1400	5.83	41.14	4250	17.71	13.55	7100	29.58	8.11	9950	41.46	5.79
1450	6.04	39.72	4300	17.92	13.40	7150	29.79	8.06	10000	41.67	5.76
1500	6.25	38.40	4350	18.13	13.24	7200	30.00	8.00	10050	41.88	5.73
1550	6.46	37.16	4400	18.33	13.09	7250	30.21	7.94	10100	42.08	5.70
1600	6.67	36.00	4450	18.54	12.94	7300	30.42	7.89	10150	42.29	5.67
1650	6.88	34.91	4500	18.75	12.80	7350	30.63	7.84	10200	42.50	5.65
1700	7.08	33.88	4550	18.96	12.66	7400	30.83	7.78	10250	42.71	5.62
1750	7.29	32.91	4600	19.17	12.52	7450	31.04	7.73	10300	42.92	5.59
1800	7.50	32.00	4650	19.38	12.39	7500	31.25	7.68	10350	43.13	5.57
1850	7.71	31.14	4700	19.58	12.26	7550	31.46	7.63	10400	43.33	5.54
1900	7.92	30.32	4750	19.79	12.13	7600	31.67	7.58	10450	43.54	5.51
1950	8.13	29.54	4800	20.00	12.00	7650	31.88	7.53	10500	43.75	5.49
2000	8.33	28.80	4850	20.21	11.88	7700	32.08	7.48	10550	43.96	5.46
2050	8.54	28.10	4900	20.42	11.76	7750	32.29	7.43	10600	44.17	5.43
2100	8.75	27.43	4950	20.63	11.64	7800	32.50	7.38	10650	44.38	5.41
2150	8.96	26.79	5000	20.83	11.52	7850	32.71	7.34	10700	44.58	5.38
2200	9.17	26.18	5050	21.04	11.41	7900	32.92	7.29	10750	44.79	5.36
2250	9.38	25.60	5100	21.25	11.29	7950	33.13	7.25	10800	45.00	5.33
2300	9.58	25.04	5150	21.46	11.18	8000	33.33	7.20	10850	45.21	5.31
2350	9.79	24.51	5200	21.67	11.08	8050	33.54	7.16	10900	45.42	5.28
2400	10.00	24.00	5250	21.88	10.97	8100	33.75	7.11	10950	45.63	5.26
2450	10.21	23.51	5300	22.08	10.87	8150	33.96	7.07	11000	45.83	5.24
2500	10.42	23.04	5350	22.29	10.77	8200	34.17	7.02	11050	46.04	5.21
2550	10.63	22.59	5400	22.50	10.67	8250	34.38	6.98	11100	46.25	5.19
2600	10.83	22.15	5450	22.71	10.57	8300	34.58	6.94	11150	46.46	5.17
2650	11.04	21.74	5500	22.92	10.47	8350	34.79	6.90	11200	46.67	5.14
2700	11.25	21.33	5550	23.13	10.38	8400	35.00	6.86	11250	46.88	5.12
2750	11.46	20.95	5600	23.33	10.29	8450	35.21	6.82	11300	47.08	5.10
2800	11.67	20.57	5650	23.54	10.19	8500	35.42	6.78	11350	47.29	5.07
2850	11.88	20.21	5700	23.75	10.11	8550	35.63	6.74	11400	47.50	5.05

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