

# 15 AMP SYSTEM

Load Current calculations based on 340W and 500W heaters

The maximum allowed load for any circuit is 80% of its circuit capacity

Note: The highlighted values are within the 80% current limitation.

## Maximum Load Per Output

Volts	Watts
120V	850W
240V	1500W

## Maximum Total Load

Volts	Watts
120V	1440W
240V	2880W

Heaters Coil	Watts	Capacity		
		120V Amp	208V Amp	240V Amp
1	340	2.83	1.63	1.42
2	680	5.67	3.27	2.83
3	1020	8.50	4.90	4.25
4	1360	11.33	6.54	5.67
5	1700	14.17	8.17	7.08
6	2040	17.00	9.81	8.50
7	2380	19.83	11.44	9.92
8	2720	22.67	13.08	11.33
9	3060	25.50	14.71	12.75
10	3400	28.33	16.35	14.17
11	3740	31.17	17.98	15.58
12	4080	34.00	19.62	17.00

Heaters Cartridge	Watts	Capacity		
		120V Amp	208V Amp	240V Amp
1	500	4.17	2.40	2.08
2	1000	8.33	4.81	4.17
3	1500	12.50	7.21	6.25
4	2000	16.67	9.62	8.33
5	2500	20.83	12.02	10.42
6	3000	25.00	14.42	12.50
7	3500	29.17	16.83	14.58
8	4000	33.33	19.23	16.67
9	4500	37.50	21.63	18.75
10	5000	41.67	24.04	20.83
11	5500	45.83	26.44	22.92
12	6000	50.00	28.85	25.00

Shaded areas show the currents that fall within the allowed load capacity of each particular circuit, at standard voltage ratings.

## 20 AMP SYSTEM

Load Current calculations based on 340W and 500W heaters  
 The maximum allowed load for any circuit is 80% of its circuit capacity

Maximum Load Per Output		Maximum Total Load	
Volts	Watts	Volts	Watts
120V	850W	120V	1920W
240V	1500W	240V	3840W

		Rating	Capacity		
		20 Amp	16 Amp		
Heaters	Watts	120V	208V	240V	
Coil		Amp	Amp	Amp	
1	340	2.83	1.63	1.42	
2	680	5.67	3.27	2.83	
3	1020	8.50	4.90	4.25	
4	1360	11.33	6.54	5.67	
5	1700	14.17	8.17	7.08	
6	2040	17.00	9.81	8.50	
7	2380	19.83	11.44	9.92	
8	2720	22.67	13.08	11.33	
9	3060	25.50	14.71	12.75	
10	3400	28.33	16.35	14.17	
11	3740	31.17	17.98	15.58	
12	4080	34.00	19.62	17.00	

Heaters	Watts	120V	208V	240V	
Cartridge		Amp	Amp	Amp	
1	500	4.17	2.40	2.08	
2	1000	8.33	4.81	4.17	
3	1500	12.50	7.21	6.25	
4	2000	16.67	9.62	8.33	
5	2500	20.83	12.02	10.42	
6	3000	25.00	14.42	12.50	
7	3500	29.17	16.83	14.58	
8	4000	33.33	19.23	16.67	
9	4500	37.50	21.63	18.75	
10	5000	41.67	24.04	20.83	
11	5500	45.83	26.44	22.92	
12	6000	50.00	28.85	25.00	

Shaded areas show the currents that fall within the allowed load capacity of each particular circuit, at standard voltage ratings.

# 30 AMP SYSTEM

Load Current calculations based on 340W and 500W heaters  
 The maximum allowed load for any circuit is 80% of its circuit capacity

**Maximum Load Per Output**  
**Volts      Watts**  
 240V      1500W

**Maximum Total Load**  
**Volts      Watts**  
 240V      5760W

	Rating	Capacity		
		24 Amp		
Heaters	Watts	120V	208V	240V
Coil		Amp	Amp	Amp
1	340	2.83	1.63	1.42
2	680	5.67	3.27	2.83
3	1020	8.50	4.90	4.25
4	1360	11.33	6.54	5.67
5	1700	14.17	8.17	7.08
6	2040	17.00	9.81	8.50
7	2380	19.83	11.44	9.92
8	2720	22.67	13.08	11.33
9	3060	25.50	14.71	12.75
10	3400	28.33	16.35	14.17
11	3740	31.17	17.98	15.58
12	4080	34.00	19.62	17.00

	Rating	Capacity		
		24 Amp		
Heaters	Watts	120V	208V	240V
Cartridge		Amp	Amp	Amp
1	500	4.17	2.40	2.08
2	1000	8.33	4.81	4.17
3	1500	12.50	7.21	6.25
4	2000	16.67	9.62	8.33
5	2500	20.83	12.02	10.42
6	3000	25.00	14.42	12.50
7	3500	29.17	16.83	14.58
8	4000	33.33	19.23	16.67
9	4500	37.50	21.63	18.75
10	5000	41.67	24.04	20.83
11	5500	45.83	26.44	22.92
12	6000	50.00	28.85	25.00

Shaded areas show the currents that fall within the allowed load capacity of each particular circuit, at standard voltage ratings.