

60 Hz Unit Cable Sizing Chart

IMPORTANT - Maximum allowable cable lengths referenced are measured from Control Panel to In-water motor. To ensure proper sized cable runs AquaMaster® requires consulting a Licensed Electrician to properly size any underground cable from the main power source to our control panel to guarantee warranty. Cable runs to the panel located away from main power source requires recalculating voltage drop to insure proper cable sizing. Actual voltage to motor will affect your fountain's performance which may require upsizing the unit cable. Please contact AquaMaster® if assistance is required.

Single Phase 3 Conductor			3 Conductor Copper Wire Gauge Size						
Unit	Volts	Approx. Amps	#14 (ft)	#12 (ft)	#10 (ft)	#8 (ft)	#6 (ft)	#4 (ft)	#2 (ft)
0.5 HP	120	5.6	150	250	450	675	1075	1725	2675
0.5 HP	208-240	2.8	600	925	1550	2375	3775	5975	9275

Single Phase 4 Conductor			4 Conductor Copper Wire Gauge Size						
Unit	Volts	Approx. Amps	#14 (ft)	#12 (ft)	#10 (ft)	#8 (ft)	#6 (ft)	#4 (ft)	#2 (ft)
1 HP	120	19.0			125	200	300	500	775
1 HP	208-240	9.6		250	450	675	1100	1750	2700
2 HP	208-240	12.6		200	325	525	825	1325	2050
3.5 HP	208-240	15.2			275	425	700	1100	1700
5 HP	208-240	27.1				250	375	600	950
7.5 HP	220-240	42.0				150	250	400	650
10 HP	220-240	58.0					175	300	475

Three Phase 4 Conductor			4 Conductor Copper Wire Gauge Size						
Unit	Volts	Approx. Amps	#14 (ft)	#12 (ft)	#10 (ft)	#8 (ft)	#6 (ft)	#4 (ft)	#2 (ft)
1 HP	208-240	5.4		550	925	1425	2250	3575	5550
1 HP	440-480	2.7		2350	3900	6025	9600	15175	23500
2 HP	208-240	6.3		475	775	1200	1925	3075	4750
2 HP	440-480	3.1		2050	3400	5250	8350	13200	20475
3 HP	208-240	10.1		300	475	750	1200	1900	2975
3 HP	440-480	5.1		1275	2075	3175	5075	8025	12450
5 HP	208-240	18.0			275	425	675	1075	1650
5 HP	440-480	9.0		700	1175	1800	2875	4550	7050
7.5 HP	220-240	26.4				300	475	775	1200
7.5 HP	440-480	13.2		475	800	1225	1950	3100	4800
10 HP	220-240	34.0				225	375	600	925
10 HP	440-480	17.0			625	950	1525	2400	3725
15 HP	220-240	44.0				175	275	450	725
15 HP	440-480	22.0				725	1175	1850	2875
20 HP	220-240	54.0					225	375	575
20 HP	440-480	27.0				600	950	1500	2350
25 HP	220-240	64.0					200	300	475
25 HP	440-480	32.0				500	800	1275	1975

Volcano II Floating Surface Aerator Cable Sizing Chart

Single Phase 4 Conductor			4 Conductor Copper Wire Gauge Size						
Unit	Volts	Approx. Amps	#14 (ft)	#12 (ft)	#10 (ft)	#8 (ft)	#6 (ft)	#4 (ft)	#2 (ft)
0.5 HP	120	7.0	125	200	350	550	875	1375	2125
0.5 HP	208-240	3.5	475	725	1225	1900	3025	4775	7425

Volcano III Floating Surface Aerator Cable Sizing Chart

Single Phase 4 Conductor			4 Conductor Copper Wire Gauge Size						
Unit	Volts	Approx. Amps	#14 (ft)	#12 (ft)	#10 (ft)	#8 (ft)	#6 (ft)	#4 (ft)	#2 (ft)
1.5 HP	208-240	8.0		325	525	825	1325	2100	3250
3.5 HP	208-240	16.0		150	250	400	650	1050	1625
5.5 HP	208-240	26.0				250	400	625	1000

Three Phase 4 Conductor			4 Conductor Copper Wire Gauge Size						
Unit	Volts	Approx. Amps	#14 (ft)	#12 (ft)	#10 (ft)	#8 (ft)	#6 (ft)	#4 (ft)	#2 (ft)
1.5 HP	208-240	6.0		500	825	1275	2025	3225	5000
1.5 HP	440-480	3.0		2100	3525	5425	8625	13650	21150
3.5 HP	208-240	11.0		275	450	700	1100	1750	2725
3.5 HP	440-480	5.5		1150	1925	2950	4700	7450	11525
5.5 HP	208-240	16.0		175	300	475	750	1200	1875
5.5 HP	440-480	8.0		775	1325	2025	3225	5125	7925