

FIXED BASE WATER FEATURE FOUNTAINS

An elegant and convenient option for many waterscape designs can be AquaMaster's Fixed Base Water Feature Fountains. Designed for smaller water features and pond applications. Fixed Base Water Feature Fountain equipment adds beauty easily and economically.



FIXED BASE WATER FEATURE FOUNTAINS

FEATURES

FIXED BASE WATER FEATURE FOUNTAINS



- Available horizontally or vertically mounted
- ½ HP to 5 HP models are available in single and three phase, 120 volt and 240 volt. Also available in 480V three phase.
- No special piping or vault required
- Standard flow straightened nozzle and electrical control panel included
- Lighting systems with optional colored lenses, sequencer and photocell available
- Waterline depth measurement and basin dimensions required when ordering
- Custom inquiries welcome

½ TO 5HP DESIGN

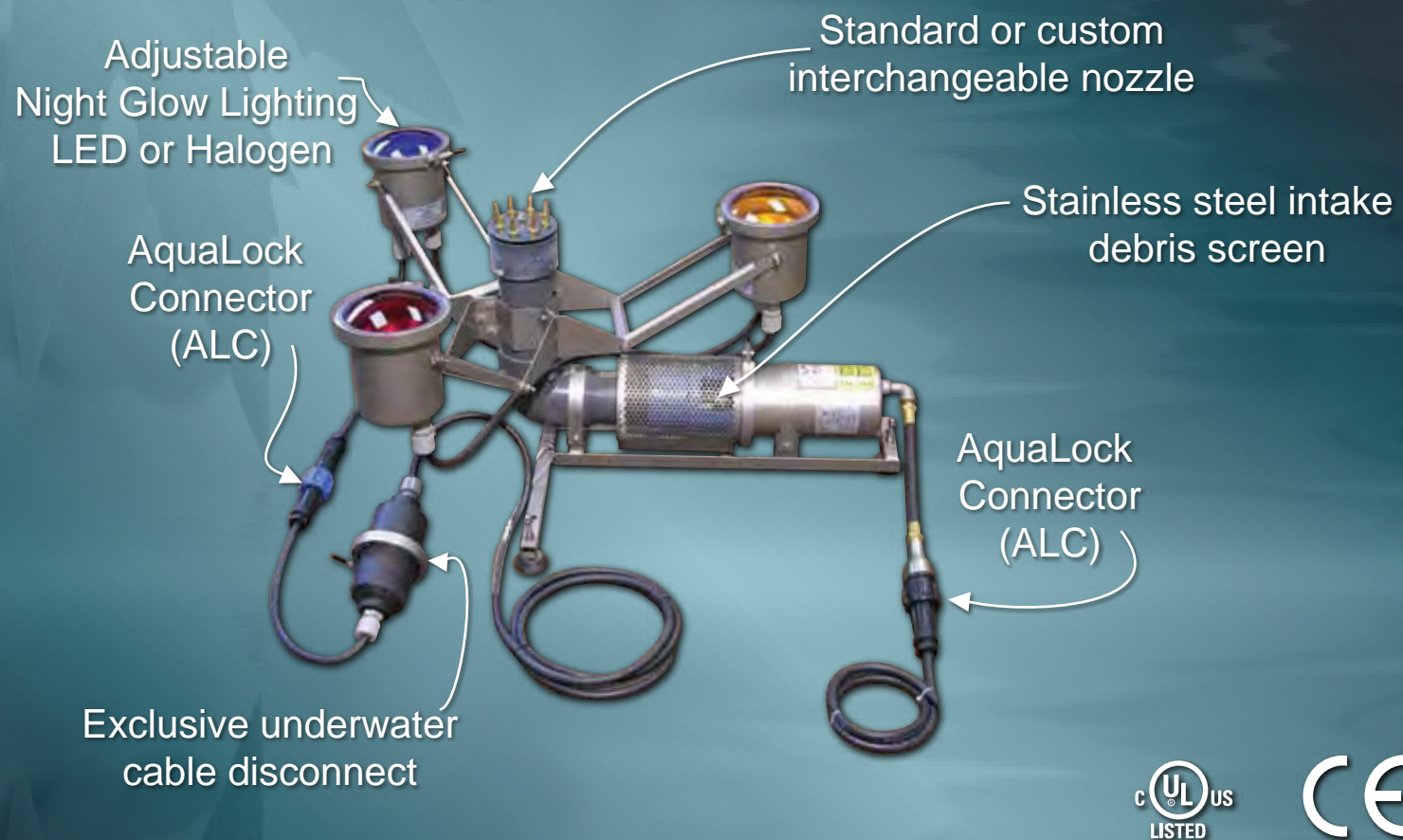
All of our Fixed Base Water Feature Fountains are constructed from stainless steel and include a first nozzle choice from the Masters Series® floating fountain spray patterns.



FIXED BASE FOUNTAIN SERIES

SEE PAGES 42 AND 43 FOR CABLE SIZING CHARTS

FIXED BASE HORIZONTAL UNIT



Vertical units are also available for deeper water depths



SEE PAGES 42 AND 43 FOR CABLE SIZING CHARTS

FIXED BASE FOUNTAIN SERIES

OPERATING DEPTH

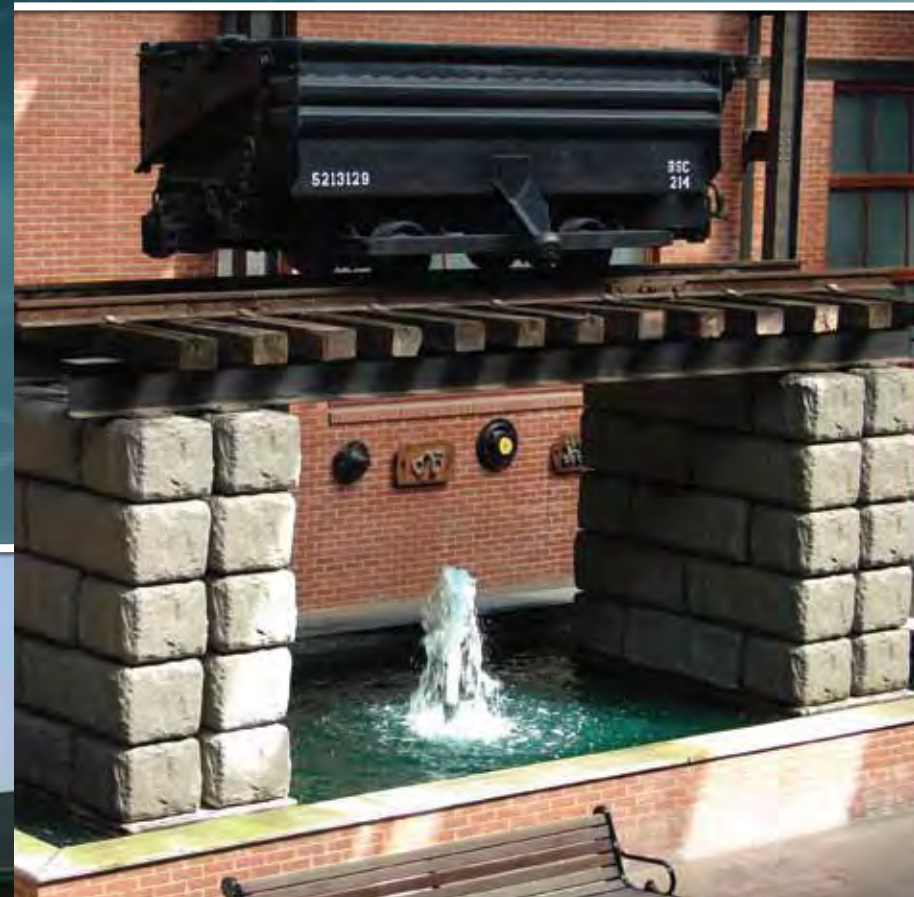
Operating depth must be specified since both vertical and horizontal mounted units are available

60HZ

HORSEPOWER	DEPTH	MOUNTING
1/2 HP	15 - 25 inches	Horizontal
1/2 HP	26" and above	Vertical
1-5 HP	18 - 35 inches	Horizontal
1-5 HP	36" and above	Vertical

50HZ

HORSEPOWER	DEPTH	MOUNTING
1/2 HP	38.1 - 63.5 centimeters	Horizontal
1/2 HP	66 centimeters and above	Vertical
1-5 HP	45.7 - 88.9 centimeters	Horizontal
1-5 HP	91.4 centimeters and above	Vertical



VOLCANO II AND HYDROMAX HIGH PERFORMANCE AERATION SERIES

The perfect choice when a high performance, lower profile, floating surface aerator is desired. Volcano II and Hydromax Aeration Series produce astonishing aeration results due to their high GPM pumping rates and oxygen transfer capabilities.



VOLCANO II

The choice when desiring maximum aeration results with a floating surface aerator. The low profile surface eruption pattern is produced by incredible pumping rates which produce high oxygen transfer results.



1/2 HP Volcano

THE HYDROMAX SERIES

The Hydromax Series features Volcano II's high volume performance, but with a conical display pattern

ETNA

This high performance Volcano, utilizes a pattern adapter to create a conical display adding aesthetics to the aeration function. The choice for the tough aquatic environment that requires both aeration and beauty.



1.5 HP Etna



3.5 HP Volcano



1.5 HP Etna

60Hz	Horsepower	1/2	1.5	3.5	5.5
	HT x DIA ft	1 x 4	2.5 x 8	3.5 x 12	4.5 x 14
	GPM	420	1298	1975	2680
50Hz	Horsepower	1/2	1.5	3.5	5.5
	HT x DIA m	0.3 x 1.2	0.8 x 2.4	1.1 x 3.7	1.4 x 4.9
	m ³ /hr.	88	327	485	686

60Hz	Horsepower	1/2	1.5	3.5	5.5
	HT x DIA ft	4 x 12	5.5 x 12	7.5 x 22	10 x 24
	GPM	258	517	845	1350
50Hz	N/A				

SHASTA

The sister to Etna, Shasta keeps a lower profile while still providing aeration with simple elegance. Add lighting and she positively shines at night.



3.5 HP Shasta



3.5 HP Shasta

60Hz	Horsepower	1/2	1.5	3.5	5.5
	HT x DIA ft	1.5 x 7	4 x 10	5 x 16	7 x 18
	GPM	324	664	1070	1415
50Hz	Horsepower	1/2	1.5	3.5	5.5
	HT x DIA m	0.5 x 1.5	1.4 x 3.1	1.4 x 3.4	2 x 5.5
	m ³ /hr.	66	223	326	358

FEATURES & DESIGN

VOLCANO II & HYDROMAX SERIES



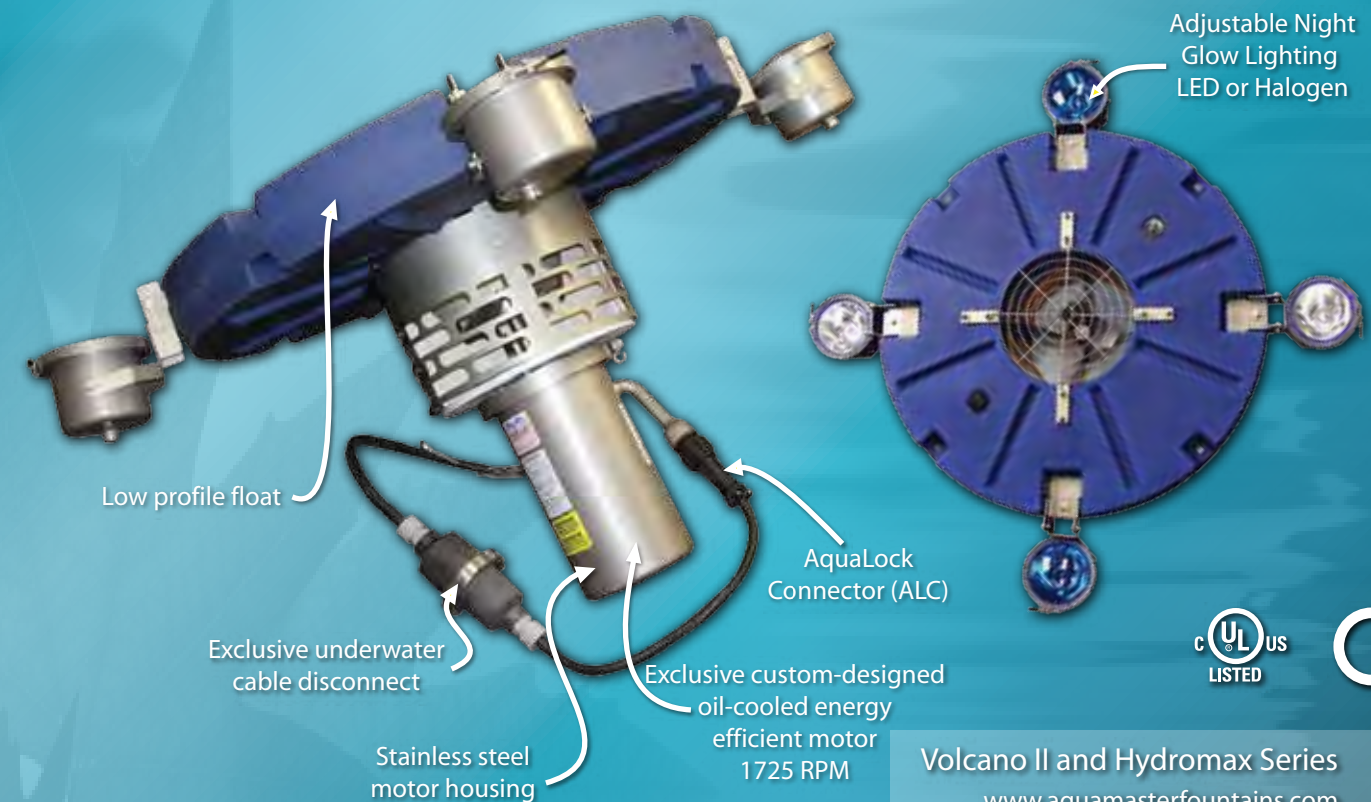
5.5 HP Shasta

FEATURES

- Easily installed
- Only requires three feet of depth (1/2 HP operating depth is 2')
- Works in deeper depths with optional float mounted deep water intake
- Creates an erupting boil. Hydromax models create a conical heavy flow pattern
- 1/2 HP (60 Hz) : 3 year warranty
- 1/2 HP (50 Hz) : 2 year warranty
- 1 - 5.5 HP (60 Hz) : 5 year warranty
- 1 - 5.5 HP (50 Hz) : 3 year warranty
- Quality stainless steel components
- Night Glow Lighting Systems now available for all models

VOLCANO II DESIGN

Top and side views with optional lights configuration. Give even more drama to your Volcano II aerator by adding the UL, cUL Listed and CE Recognized Night Glow LED Lighting System. Any lighting system choice includes stainless steel lamp housings, ready to be installed on the float, sealed with clear tempered glass lenses in a stainless steel clamp ring. Minimal installation is required. All lights remain water-cooled and out of sight below the surface.



CABLE SIZING CHARTS

IMPORTANT-

AquaMaster recommends consulting a Licensed Electrician to properly size any cable from the main power source to our control panel. Cable runs to the panel located away from main power source requires recalculating voltage drop to insure proper cable sizing. Please contact AquaMaster if assistance is required.

MAXIMUM RECOMMENDED TOTAL CABLE LENGTH (IN FEET) FROM FOUNTAIN AERATOR TO CONTROL PANEL

4 CONDUCTOR: REQUIRED ON ALL VOLCANO II FLOATING SURFACE AERATORS									
SINGLE PHASE 4 CONDUCTOR			4 CONDUCTOR COPPER WIRE GAUGE SIZE						
UNIT	VOLTS	APPROX. AMPS	#14	#12	#10	#8	#6	#4	#2
1/2 HP	120V	7	138	214	357	549	875	1382	2143
1/2 HP	208-240V	3.5	479	743	1238	1905	3032	4793	7429
1.5 HP	208-240V	8	---	325	542	833	1327	2097	3250
3.5 HP	208-240V	16	---	163	271	417	663	1048	1625
5.5 HP	208-240V	20	---	---	167	256	408	645	1000

THREE PHASE 4 CONDUCTOR			4 CONDUCTOR COPPER WIRE GAUGE SIZE						
UNIT	VOLTS	APPROX. AMPS	#14	#12	#10	#8	#6	#4	#2
1.5 HP	208-240V	6	---	500	834	1283	2042	3228	5004
1.5 HP	440-480V	3	---	2117	3528	5428	8641	13658	21170
3.5 HP	208-240V	11	---	273	455	700	1114	1761	2729
3.5 HP	440-480V	5.5	---	1155	1925	2961	4713	7450	11547
5.5 HP	208-240V	16	---	188	313	481	766	1211	1876
5.5 HP	440-480V	8	---	790	1320	2035	3240	5120	7935

POND SIZING CHART

A pond's surface acreage (S.A) is determined by multiplying its length in feet by its width in feet then dividing that total by 43,560. A pond's Actual Shape and depth should all be considered when selecting horsepower and unit size.

HORSEPOWER	SUGGESTED POND SIZE	MINIMUM OPERATING DEPTH
1/2	Up to 3/4	2'
1.5	Up to 1	3'
3.5	1 +	3'
5.5	1 +	3'

CABLE SIZING CHARTS

IMPORTANT-

AquaMaster recommends consulting a Licensed Electrician to properly size any cable from the main power source to our control panel. Cable runs to the panel located away from main power source requires recalculating voltage drop to insure proper cable sizing. Please contact AquaMaster if assistance is required.

MAXIMUM RECOMMENDED CABLE LENGTH (IN METERS) FROM FOUNTAIN AERATOR TO CONTROL PANEL

SINGLE PHASE 4 CONDUCTOR			4 CONDUCTOR COPPER WIRE GAUGE SIZE						
Unit	Volts	Approx Amps	#14	#12	#10	#8	#6	#4	#2
1/2 HP	220-230V	3.5	155	2400	399	614	977	1545	2395

THREE PHASE 4 CONDUCTOR			4 CONDUCTOR COPPER WIRE GAUGE SIZE						
Unit	Volts	Approx Amps	#14	#12	#10	#8	#6	#4	#2
1.5 HP	220-230V	6.0	--	161	269	414	658	1041	1613
1.5 HP	380-415V	3.0	--	557	929	1429	2275	3595	5573
3.5 HP	220-230V	11.0	--	88	147	226	359	568	880
3.5 HP	380-415V	5.5	--	304	507	779	1241	1961	3040
5.5 HP	220-230V	16.0	--	60	101	155	247	390	605
5.5 HP	380-415V	8.0	--	209	348	536	853	1348	2090

HORSEPOWER	SUGGESTED POND SIZE (Ha.)	MINIMUM OPERATING DEPTH (m)
1/2	Up to 0.3	0.6
1.5	Up to 0.4	0.9
3.5	0.4+	0.9
5.5	0.4+	0.9

POND SIZING CHART

A pond's surface acreage (Ha.) is determined by multiplying its length in meters by its width in meters, then dividing that total by 10,000. A pond's actual shape and depth should be considered when selecting horsepower and unit size.

AQUAAIR® HIGH PERFORMANCE DIFFUSED AIR AERATION SYSTEMS

AquaAir® provides ponds and lakes with superior aeration, circulation, and de-stratification. Dissolved oxygen (DO) levels are increased throughout the entire water column with the use of bottom-mounted diffusers. The diffusers employ a super fine micro-bubble technology resulting in the highest diffuser oxygen transfer rate (OTR) available today. The micro-bubbles draw water from the pond floor to the surface where atmospheric oxygen is absorbed and then transferred throughout the water column. This process provides excellent deterrence to thermal stratification (layers of different temperature within the water). The diffusers are connected by self-weighted Super Sink air supply tubing to a revolutionary cylindrical design enclosure containing one of four compressor sizes. System sizes range from 1/3 to 1 HP and operate with 1 to 6 diffusers.



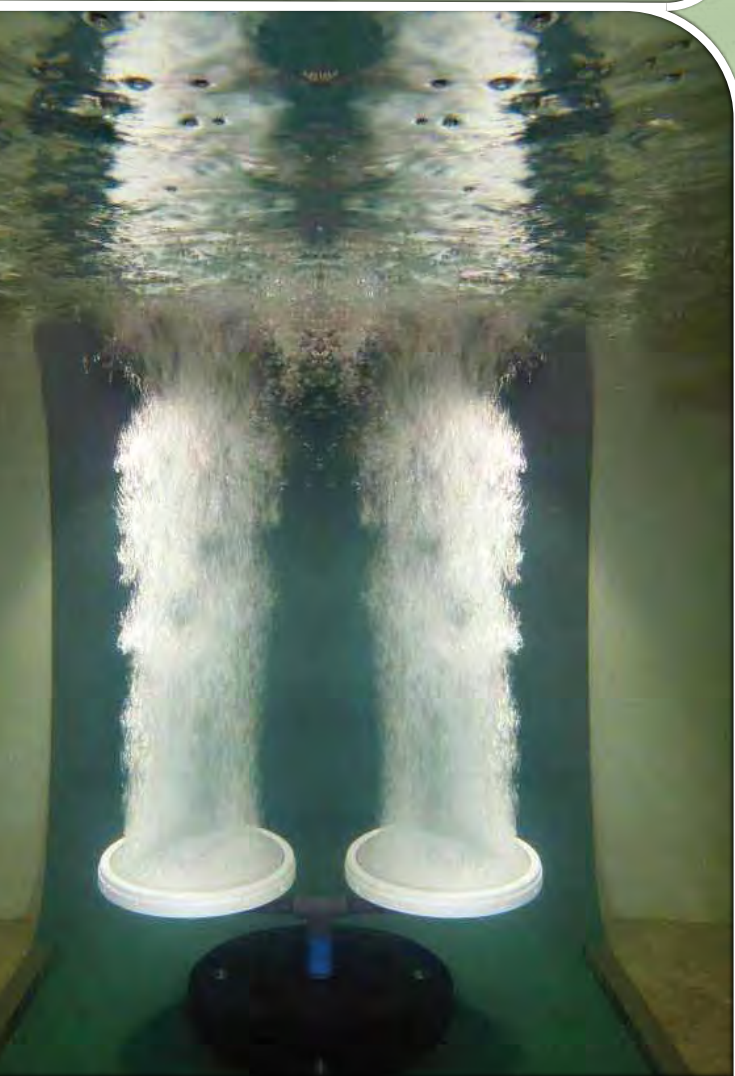
AQUAAIR® AERATION SYSTEM

When superior aeration and de-stratification is desired for water bodies that require a more natural setting, permit safe recreational use, require non-moving or non-electrical parts, or are very deep and/or large, AquaAir® by AquaMaster® is the intelligent choice.



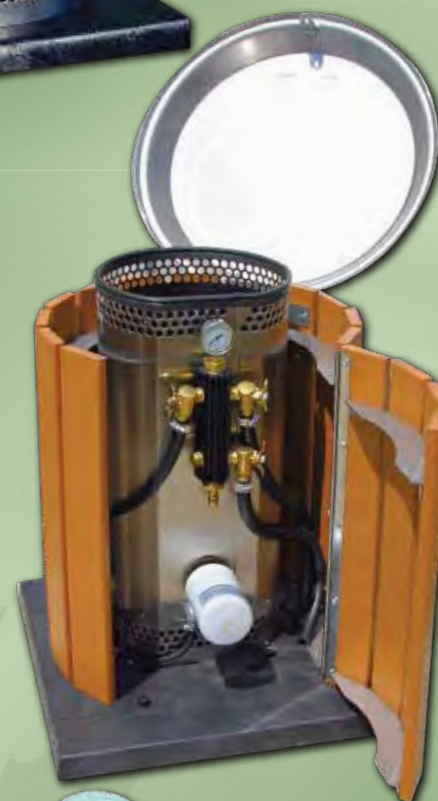
High Performance Membrane Diffuser Technology

- Hollow base design for sand or gravel weighting
- Large base area for soft bottom sediment
- Self-cleaning, low maintenance construction
- Ultra low back pressure check valve
- Micro-bubble technology
- Five year warranty (Diffusers)
- All membranes feature a non-stick coating to prevent biofilm and calcium build-up
- Single membrane features flexible 12" disc
- Dual membrane features two flexible 12" membrane discs
- Quad membrane features four flexible 12" membrane discs



Lake and Pond Benefits

- Entire water column circulation - up to 4000 gallons per minute depending on diffuser depth
- Elimination of thermal stratification
- Increased dissolved oxygen levels that stimulate the natural aerobic digestion process thus reducing nutrient levels and associated algal growth
- Elimination of oxygen related fish kills and expansion of the oxygenated habitat and ecosystem
- Reduction of mosquito and aquatic midge infestations
- Elimination of foul odors from undesirable gases
- Reduction of organic bottom sediment
- Preservation of a healthy aquatic ecosystem and an aesthetically pleasing aquascape to view and enjoy through improved water quality



Compressors

- Manufactured by Gast and Thomas
- 1/3 & 1/2 HP 120V & 240V 1 phase (Piston; PN)
- 3/4 & 1 HP 120V & 240V 1 phase (Rotary Vane; RV)
- Thermal overload motor protection
- 2 Year Warranty

Compressor Enclosures

- Cylindrical stainless steel housing
- Chimney effect assists to cool compressor
- Heavy-duty cooling fan circulates air around compressor
- Stainless steel hasp latch with MASTER LOCK included
- Ground mount and post mount (P) available (post mount available in AquaAir 1 and 2 only)
- Stainless steel cover and hardware - Limited lifetime warranty
- Ease of internal accessibility
- 5 year warranty (cooling fan 2 year warranty)
- 5 optional slatted colored covers in:

Black

Cedar

Green



Grey

Sand



Super Sink Air Tubing

- Flexible, will not crack or kink even in cold temperatures
- Self-weighted for easy installation and quick sinking
- 2 sizes available, in 100' coils; 1/2" and 5/8"
- 1/2": .52" ID x 1.06" OD,
- 5/8": .63" ID x 1.15" OD
- Utilizes PVC insert fittings for quick connections
- 5 year warranty

Remote Manifold

Eliminates the need for multiple, more expensive air lines to run in ground and over long distances when the AquaAir® Compressor is located far from the water's edge. Supplied with or without the inground junction box.

Voltage - Model	HP	@ 5 PSI	@ 10 PSI	@ 25 PSI
AquaAir 1 * 120V - (P) 9410 240V - (P) 9412	PN (1) 1/3	2.4 CFM 3.0A @ 120V 1.1A @ 240V	2.4 CFM 3.3A @ 120V 1.2A @ 240V	2.1 CFM 4.0A @ 120V 1.5A @ 240V
AquaAir 2 * 120V - (P) 9420 240V - (P) 9422	PN (1) 1/2	4.8 CFM 3.5A @ 120V 1.7A @ 240V	4.8 CFM 3.9A @ 120V 1.9A @ 240V	4.2 CFM 5.0A @ 120V 2.5A @ 240V
AquaAir 3 120V - 9430 240V - 9432	RV (1) 3/4	9.4 CFM 7.4A @ 120V 3.7A @ 240V	8.8 CFM 8.8A @ 120V 4.4A @ 240V	N/A
AquaAir 3 120V - (DW) 9413 240V - (DW) 9423	PN (1) 1/3 & PN (1) 1/2	7.2 CFM 6.3A @ 120V 2.8A @ 240V	7.2 CFM 7.1A @ 120V 3.1A @ 240V	6.3 CFM 9.0A @ 120V 4.0A @ 240V
AquaAir 4 120V - 9440 240V - 9442	RV (1) 3/4	9.4 CFM 7.4A @ 120V 3.7A @ 240V	8.8 CFM 8.8A @ 120V 4.4A @ 240V	N/A
AquaAir 4 120V - (DW) 9414 240V - (DW) 9424	PN (2) 1/2	9.6 CFM 6.8A @ 120V 3.4A @ 240V	9.6 CFM 7.7A @ 120V 3.8A @ 240V	8.4 CFM 10.0A @ 120V 5.0A @ 240V
AquaAir 5 120V - 9450 240V - 9452	RV (1) 1	11.8 CFM 9.6A @ 120V 4.8A @ 240V	10.2 CFM 11.3A @ 120V 5.7A @ 240V	N/A
AquaAir 6 120V - 9460 240V - 9462	RV (1)1	11.8 CFM 9.6A @ 120V 4.8A @ 240V	10.2 CFM 11.3A @ 120V 5.7A @ 240V	N/A

* AquaAir® 1 and 2 are used for both shallow and deep water applications.

** A pond's surface acreage is determined by multiplying its length in feet by its width in feet then dividing that total by 43,560.

A pond's actual shape and depth should be considered when selecting a system.

(P) Optional Post Mount Available (CFM) Cubic Feet Per Minute (RV) Rotary Vane
(DW) Deep Water (PN) Piston (PSI) Pounds Per Square Inch

SYSTEM SIZING CHART

Notes

- Sizing guide based on lake turnover rate of 1.5 - 2 times per day. This is adequate to aerate most low oxygen, organic bottom sediment lakes
- Narrow lakes or lakes with fingers, coves or other physical features that restrict circulation may require additional diffusers
- Lakes with inflow sources of effluent water, highly polluted water, and/or high nutrient drainage run-off water may require additional diffusers

System	Suggested Pond Size (S.A)	Operating Depth
AquaAir 1 *	Up to 1/2 Up to 1	4' - 12' 13' - 35'
AquaAir 2 *	Up to 1 Up to 2	4' - 12' 13' - 35'
AquaAir 3	Up to 2 Up to 3	4' - 12' 13' - 16'
AquaAir 3 (DW)	Up to 3	17' - 35'
AquaAir 4	Up to 3 Up to 4	4' - 12' 13' - 16'
AquaAir 4 (DW)	Up to 4	17' - 35'
AquaAir 5	Up to 4 Up to 5	4' - 12' 13' - 16'
AquaAir 6	Up to 5 Up to 6	4' - 12' 13' - 16'

Description & Model #	HP	Voltage @ 1 PHASE	Suggested Pond Size (Ha)	Operating Depths (m)
AquaAir 1 * F50-9410 F50-(P)9410	(1)1/3	220	Up to .2 Up to .4	1.2 - 3.7 4.0 - 10.7
AquaAir 2 * F50-9420 F50-(P)9420	PN (1)1/2	220	Up to .4 Up to .8	1.2 - 3.7 4.0 - 10.7
AquaAir 3 F50-9430 F50-(P)9432	RV (1)3/4	220	Up to .8 Up to 1.2	1.2 - 3.7 4.0 - 4.9
AquaAir 3 (DW) F50-9432	PN (1)1/3 & PN (1)1/2	220	Up to 1.2	5.2 - 10.7
AquaAir 4 F50-9440	RV (1)3/4	220	Up to 1.2 Up to 1.6	1.2 - 3.7 4.0 - 4.9
AquaAir 4 (DW) F50-9442	PN (2)1/2	220	Up to 1.6	5.2 - 10.7
AquaAir 5 F50-9450	RV (1)1	220	Up to 1.6 Up to 2	1.2 - 3.7 4.0 - 4.9
AquaAir 6 F50-9460	RV (1)1	220	Up to 2 Up to 2.4	1.2 - 3.7 4.0 - 4.9

* AquaAir® 1 and 2 are used for both shallow and deep water applications.

** A pond's surface acreage is determined by multiplying its length in meters by its width in meters and dividing that total by 10,000.

A pond's actual shape and depth should be considered when selecting a system.

(P) Optional Post Mount Available (CFM) Cubic Feet Per Minute (RV) Rotary Vane
(DW) Deep Water (PN) Piston (PSI) Pounds Per Square Inch

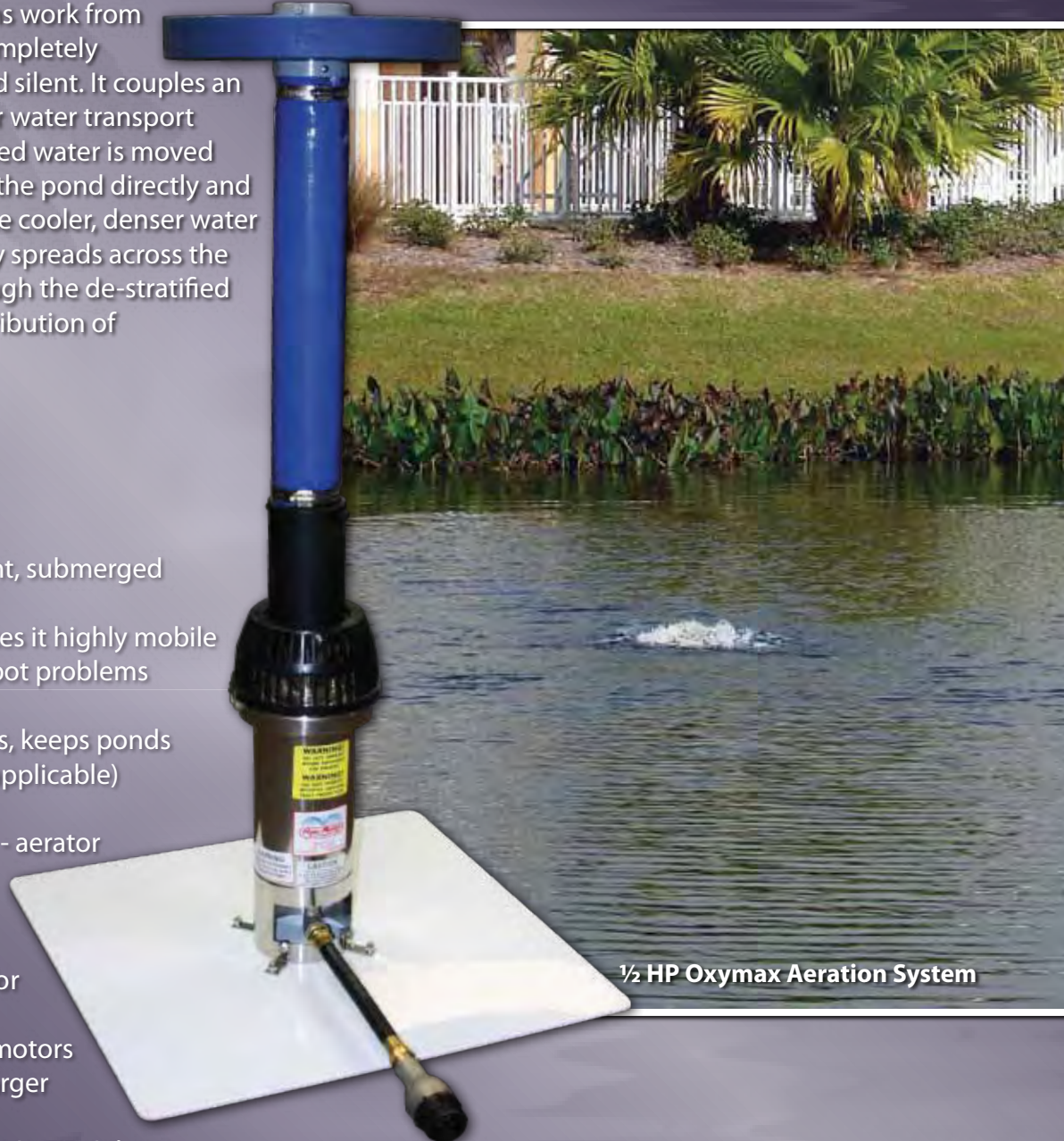
OXYMAX® DIRECTIONAL FLOW AERATION SYSTEM

Give the aquatic manager a solution to water quality problems when no fountain spray pattern is desired. These silent, vertical mixers are environmentally friendly and will not disturb your aquatic landscape.

Oxymax® Aeration Systems work from the bottom of the pond, completely submerged, out of sight and silent. It couples an electric motor to a propeller water transport system. The oxygen-depleted water is moved rapidly from the bottom of the pond directly and efficiently to the surface. The cooler, denser water absorbs oxygen as it quickly spreads across the pond. It returns down through the de-stratified layers, providing equal distribution of oxygenated water.

System Features

- Totally out of sight and silent, submerged to bottom
- Lightweight, small size makes it highly mobile and easily relocated for spot problems (1/2 HP)
- Ideal for fish impoundments, keeps ponds open year round (where applicable) eliminating winter kill
- No possible freeze damage - aerator is totally submerged
- Submerged motor and seals lubricated by non-toxic food grade oil for longer life
- 1/2 to 5 HP, 1 and 3 phase motors
- 3 year warranty, 1 HP and larger
- 2 year warranty, 1/2 HP
- Easily adapts to any pond 2.5' to 20' deep
- Low-profile float mounted below waterline
- Quality stainless steel components



1/2 HP Oxymax Aeration System

Oxymax® Sizing

General Rule of Thumb:
1 HP per surface acre. Increase number of units for ponds with restricted circulation and/or severe nutrient load conditions.

PERFORMANCE SPECIFICATIONS

OXYMAX® AERATION SYSTEM

See pages 42 and 43 for Cable Sizing Charts

HORSEPOWER	VOLTAGE & PHASE	APPROX. AMPS	MINIMUM OPERATING DEPTH	MAXIMUM OPERATING DEPTH	60 Hz
1/2	120-1PH	5	2.5'	20'	
	240-1PH	2.5			
1	120-1PH	18	5'	20'	
	240-1PH	9			
	230-3PH	5			
	460-3PH	2.5			
2	240-1PH	12	5'	20'	
	230-3PH	6			
	460-3PH	3			
3	230-3PH	10	5'	20'	
	460-3PH	5			
3.5	240-1PH	15	5'	20'	
5	240-1PH	26	5'	20'	
	230-3PH	12			
	460-3PH	6			

HORSEPOWER	VOLTAGE & PHASE	APPROX. AMPS	MINIMUM OPERATING DEPTH	MAXIMUM OPERATING DEPTH	50 Hz
1/2	220-1PH	2.4	2.5' (0.8m)	20' (6m)	
1	220-1PH	10	5' (1.5m)	20' (6m)	
	220-230-3PH 380-415-3PH	5.8 2.9			
2	220-1PH	12.5	5' (1.5m)	20' (6m)	
	220-230-1PH 380-415-3PH	8 4			
3	220-1-PH	19	5' (1.5m)	20' (6m)	
	220-230-1PH	10			
	380-415-3PH	5			
5	220-1-PH	28	5' (1.5m)	20' (6m)	
	220-230-1PH	18			
	380-415-3PH	9			



ULTIMAX® DIRECTIONAL FLOW AERATION SYSTEM

This series of aerators provides horizontal circulation of water and oxygen at or below the surface. Powered by our exclusive submerged electric motor, the specifically designed propeller circulates water directionally. Available in mixer, aspirator, surface float, or bottom fixed base versions.

System Features

- Low-profile motor mounted below waterline
- 3 year warranty, 1 HP and larger
- 2 year warranty, 1/2 HP
- Shrouded propeller creates greater circulation
- Adjustable attack angle for greatest efficiency
- Can operate in as little as 2' of depth
- Quality Stainless Steel components
- Site specific with maximum zone of influence
- Available in Surface Float or Fixed Base Bottom Mounts
- Aspirator models feature injected atmospheric oxygen via venturi technology
- Easily adapts to any pond 2.5' to 10' deep
- Not susceptible to freeze damage – aerator is totally submerged
- Ideal for fish impoundments, keeps ponds open year round (where applicable) eliminating winter kill

ULTIMAX® HYDROMIXER



Fixed Base Bottom Mount

PERFORMANCE SPECIFICATIONS

ULTIMAX® AERATION SYSTEM

See pages 42 and 43 for Cable Sizing Charts

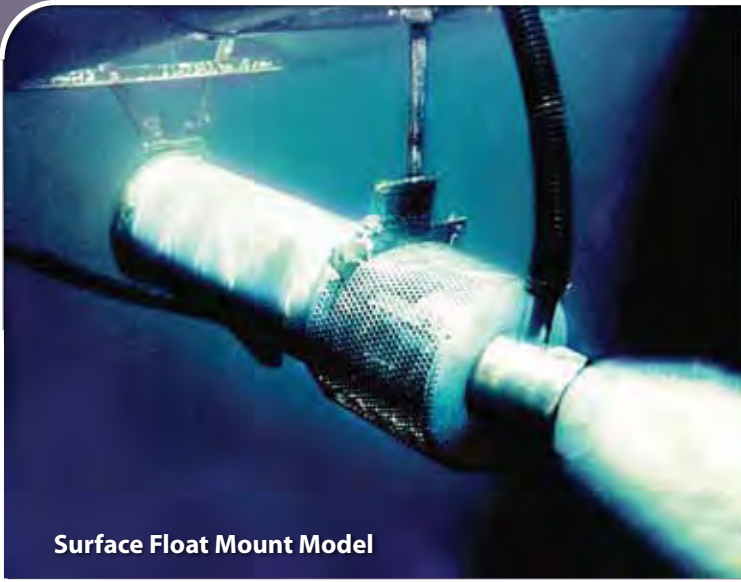
B designates a bottom fixed base Ultimax® unit.

HORSEPOWER	VOLTAGE & PHASE	APPROX. AMPS	MINIMUM OPERATING DEPTH	MAXIMUM OPERATING DEPTH	(B) MAXIMUM OPERATING DEPTH	60 Hz
½	120-1PH	5	2' (B) 3'	UNLIMITED	20'	
	240-1PH	2.5				
1	120-1PH	18	3'	UNLIMITED	20'	
	240-1PH	9				
	230-3PH	5				
2	460-3PH	2.5	3'	UNLIMITED	20'	
	240-1PH	12				
	230-3PH	6				
3	460-3PH	3	3'	UNLIMITED	20'	
	230-3PH	10				
3.5	460-3PH	5	3'	UNLIMITED	20'	
	240-1PH	15				
5	240-1PH	26	3'	UNLIMITED	20'	
	230-3PH	12				
	460-3PH	6				

HORSEPOWER	VOLTAGE & PHASE	APPROX. AMPS	MINIMUM OPERATING DEPTH	MAXIMUM OPERATING DEPTH	(B) MAXIMUM OPERATING DEPTH	50 Hz
½	220-1PH	3	2' (0.6m) (B) 3' (1m)	UNLIMITED	10' (3m)	
1	220-1PH	10	3' (1m)	UNLIMITED	10' (3m)	
	220-230-3PH 380-415-3PH	5.8 2.9				
2	220-1PH	12.5	3' (1m)	UNLIMITED	10' (3m)	
	220-230-3PH 380-415-3PH	8 4				
3	220-1PH	19	3' (1m)	UNLIMITED	10' (3m)	
	220-230-3PH 380-415-3PH	10 5				
5	220-1PH	28	3' (1m)	UNLIMITED	10' (3m)	
	220-230-3PH	18				
	380-415-3PH	9				

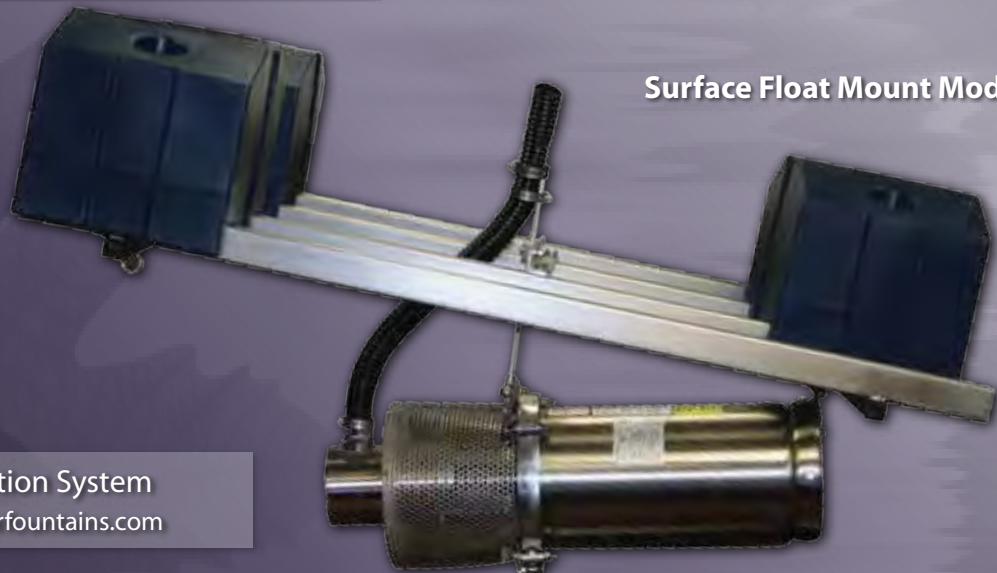
ULTIMAX® AIR INJECTOR

General Rule of Thumb sizing for Ultimax:
3 HP per surface acre.
Increase number of units for ponds with restricted circulation and/or severe nutrient load conditions.



Surface Float Mount Model

Surface Float Mount Model



NIGHT GLOW LIGHTING SYSTEMS

LED

NIGHT GLOW LIGHTING SYSTEMS

AquaMaster® products are even more dramatic at night with the addition of Night Glow LED or Halogen Lighting Systems.

AquaMaster® is proud to introduce its new energy efficient, high lumen output LED lighting for floating and fixed base fountains. LED Lighting Systems consist of LED lamps housed in all stainless steel (SS) submersible fixtures, SS mounting brackets, SS braided fixture jumper cables, electrical controls in unit panel and 50 feet (1/2-5 HP models) or 100 feet (7.5 and higher HP models) of power cable with AquaLock (ALC) quick disconnect (additional cable ordered as required). All LED lenses can be positioned above or below water. Housing should remain submerged for cooling purposes.

The New LED lighting system is compliant with the Energy Independence and Security Act of 2007.

LED VS. HALOGEN COST %

Light Wattage	Amperage	Operating Cost per Hour	Percent
12 Watt LED	0.36	\$0.004	14%
75 Watt Halogen	2.5	\$0.030	100%
18 Watt LED	0.81	\$0.010	16%
150 Watt Halogen	5	\$0.060	100%
21 Watt LED	0.86	\$0.010	5%
250 Watt Halogen	8.5	\$0.100	50%
500 Watt Halogen	17	\$0.200	100%

Operating Cost based on \$0.10 per kW-hr.
Percent is LED vs. Halogen cost per hour
Information based on comparing 4 light sets



Night Glow LED Lighting Systems Include:

- 3-year warranty including LED lamps
- Three fixture options available;
 - 12 Watt LED = 90 Watt Halogen
 - 18 Watt LED = 200 Watt Halogen
 - 21 Watt LED = 350 Watt Halogen
- Significant reduction in energy consumption thus lowering operating cost
- Extended lamp life (rated 45000 hours) virtually eliminates the need to replace lamps and components thus reducing maintenance costs
- Low fixture temperature reduces maintenance issues
- LED lamps are not subject to vibration damage as can be the case with filament type halogen lamps
- Over voltage will not reduce LED lamp life
- Stainless Steel braided underwater cable protection standard on cables between light fixtures
- Most installations require 14 gauge cable for ease of handling and reduced cable costs
- Easily replaces existing light sets



For 480V applications, a small transformer is required

Options such as colored lenses, sequencer and photocell are also available

Night Glow Halogen lighting systems. 2 to 8 light 120 volt systems, ranging from 75 to 500 watts, are available with 6 ma GFCI Protection standard. Low voltage light systems are also available with 50 watt lamps. Halogen lighting system choices include stainless steel lamp housings ready to be installed. All lights remain water-cooled and out of sight below the surface. All necessary electrical controls, including timer, are pre-wired into the unit's existing control panel. Options such as colored lenses, sequencer and photocell complete your dramatic lighting display.

HALOGEN LIGHTS

MAXIMUM RECOMMENDED TOTAL CABLE LENGTH FOR 5% VOLTAGE DROP

3 Conductor				Copper Wire Gauge Size								
Watts Per Fixture	# of Fixtures	Volts	Approx Amps	#14	#12	#10	#8	#6	#4	#2		
75	2	120	1.3	744	1154	1923	2959	4710	7444	11538		
75	3	120	1.9	509	789	1316	2024	3222	5093	7895		
75	4	120	2.5	387	600	1000	1538	2449	3871	6000		
75	6	120	3.8	255	395	658	1012	1611	2547	3947		
75	8	120	5	194	300	500	769	1224	1935	3000		
150	2	120	2.5	387	600	1000	1538	2449	3871	6000		
150	3	120	3.8	255	395	658	1012	1611	2547	3947		
150	4	120	5	194	300	500	769	1224	1935	3000		
150	6	120	7.5	129	200	333	513	816	1290	2000		
150	8	120	10	--	150	250	385	612	968	1500		
250	2	120	4.2	230	357	595	916	1458	2304	3571		
250	3	120	6.3	154	238	397	611	972	1536	2381		
250	4	120	8.5	114	176	294	452	720	1139	1765		
250	6	120	12.5	--	120	200	308	490	774	1200		
250 *	8	120	17	Requires 2 runs of cable								
2 runs at:				114	176	294	452	720	1139	1765		
500 *	4	120	17	Requires 2 runs of cable								
2 runs at:				114	176	294	452	720	1139	1765		
500 *	6	120	25	Requires 2 runs of cable								
2 runs at:				--	120	200	308	490	774	1200		
500 *	8	120	34	Requires 2 runs of cable								
2 runs at:				--	88	147	226	360	569	882		

LED LIGHTS

MAXIMUM RECOMMENDED TOTAL CABLE LENGTH FOR 5% VOLTAGE DROP

3 Conductor				Copper Wire Gauge Size		
Watts Per Fixture	# of Fixtures	Volts	Approx Amps	#14	#12	#10
12	2	120	0.178	5437	8427	14045
12	3	120	0.267	3625	5618	9363
12	4	120	0.356	2718	4213	7022
12	6	120	0.534	1812	2809	4682
12	8	120	0.712	1359	2107	3511
18	2	120	0.404	2395	3713	6188
18	3	120	0.606	1597	2475	4125
18	4	120	0.808	1198	1856	3094
18	6	120	1.212	798	1238	2063
18	8	120	1.616	599	928	1547
18	12	120	2.424	399	619	1031
21	2	120	0.432	2240	3472	5787
21	3	120	0.648	1493	2315	3858
21	4	120	0.864	1120	1736	2894
21	6	120	1.296	747	1157	1929
21	8	120	1.728	560	868	1447
21	12	120	2.592	373	579	965

IMPORTANT-

AquaMaster recommends consulting a Licensed Electrician to properly size any cable from the main power source to our control panel. Cable runs to the panel located away from main power source requires recalculating voltage drop to insure proper cable sizing. For cable runs exceeding 800 feet consult AquaMaster to insure proper GFCI selection. Please contact AquaMaster if assistance is required.

HALOGEN LIGHTS

MAXIMUM RECOMMENDED TOTAL CABLE LENGTH FOR 5% VOLTAGE DROP

3 Conductor				Copper Wire Gauge Size								
Watts Per Fixture	# of Fixtures	Volts	Approx Amps	#14	#12	#10	#8	#6	#4	#2		
75	2	220	0.7	773	1197	1996	3070	4487	7725	11974		
75	3	220	1.1	492	762	1270	1954	3110	4916	4620		
75	4	220	1.4	286	599	998	1535	2444	3863	5987		
75	6	220	2.1	258	399	665	1023	1629	2575	3991		
75	8	220	2.8	193	299	499	768	1222	1931	2994		
150	2	220	1.4	386	599	998	1535	2444	3863	5987		
150	3	220	2	270	419	699	1075	1711	2704	4191		
150	4	220	2.7	200	310	517	796	1267	2003	3104		
150	6	220	4.1	132	204	341	524	834	1319	2044		
150	8	220	5.5	--	152	254	391	622	983	1524		
250	2	220	2.3	235	364	607	934	1487	2351	3644		
250	3	220	3.4	159	247	411	632	1006	1591	2465		
250	4	220	4.5	120	186	310	478	760	1202	1863		
250	6	220	6.8	80	123	205	316	503	795	1233		
250	8	220	9.1	59	92	154	236	376	594	921		
500	4	220	9.1	59	92	154	236	376	594	921		
500	6	220	13.6	--	62	103	158	252	398	616		
500 *	8	220	18.2	Requires 2 runs of cable								
2 runs at:				--	14	23	36	57	91	141		

* 2 runs of cable required

LED LIGHTS

MAXIMUM RECOMMENDED TOTAL CABLE LENGTH FOR 5% VOLTAGE DROP

3 Conductor				Copper Wire Gauge Size		
Watts Per Fixture	# of Fixtures	Volts	Approx Amps	#14	#12	#10
12	2	220	0.089	6076	9418	1567
12	3	220	0.1335	4051	6279	10464
12	4	220	0.178	3038	1709	7848
12	6	220	0.267	2025	3139	5232
12	8	220	0.356	1519	2355	3924
18	2	220	0.202	2677	1450	6916
18	3	220	0.303	1785	2766	4611
18	4	220	0.404	1339	2075	3458
18	6	220	0.606	892	1383	2305
18	8	220	0.808	669	1037	1729
18	12	220	1.212	446	692	1153
21	2	220	0.202	1677	4150	6916
21	3	220	0.303	1785	2766	4611
21	4	220	0.404	1339	2075	3458
21	6	220	0.606	892	1383	2305
21	8	220	0.808	669	1037	1729
21	12	220	1.212	446	692	1153

IMPORTANT-

AquaMaster recommends consulting a Licensed Electrician to properly size any cable from the main power source to our control panel. Cable runs to the panel located away from main power source requires recalculating voltage drop to insure proper cable sizing. For cable runs exceeding 800 feet consult AquaMaster to insure proper GFCI selection. Please contact AquaMaster if assistance is required.

ACCESSORIES AND ELECTRICAL

NEMA CONTROL PANEL

Optional Rain tight, lockable NEMA 3R Control Panel containing a 24 hour digital timer, contactor, overload relay, GFCI protection. Enclosures are powder-coated galvanized steel for superior corrosion resistance. Control multiple units conveniently from a Custom Control Panel (CCP) Fiberglass or Stainless Steel



AQUALOCK CONNECTOR (ALC)

Quick disconnect UL listed, waterproof, underwater cable connector for lights and units.



LED SPOTLIGHT

Illuminate your fountain or lanscape with an LED Spotlight. The stand and light housing unit are made of stainless steel. The base is easily hidden underground.



NOZZLES

Spray pattern nozzles can be interchanged with many patterns to create stunning and unique fountains.



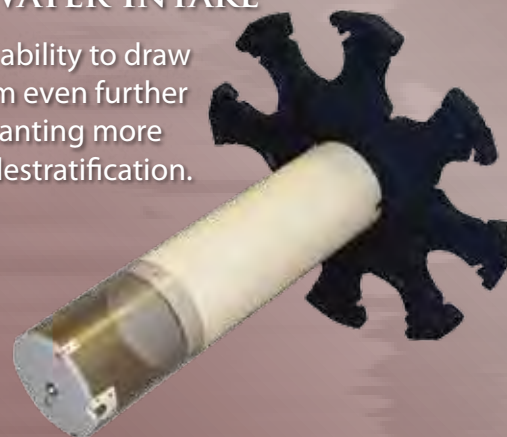
LARGE STAINLESS STEEL INTAKE SCREEN

1/2 to 5 HP design Customized for use in high debris water.



DEEP WATER INTAKE

Gives the ability to draw water from even further depths granting more efficient destratification.



SEQUENCER

Lights turn off/on and blend in a magnificent display.



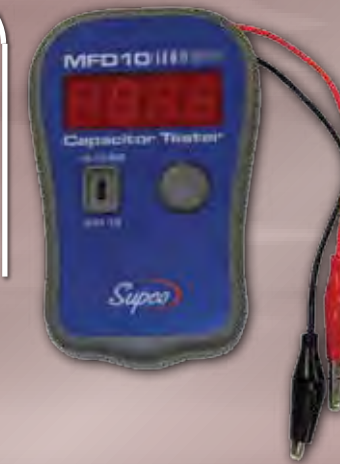
FOUNTAIN WIND SPEED CONTROL

Monitor comes mounted in control panel and features a single and dual stage to reduce or shut down the fountain depending on wind speeds.



VOLTAGE / AMPERAGE METER

Our clamp meters test AC Current, AC Voltage, DC Voltage, Resistance and Continuity. Auto ranging. Easy-to-read display. Tester includes test leads.



CAPACITOR TESTER

The capacitor tester can reliably test all capacitors from 0.01 MFD to 10,000 MFD. It is designed to meet all industrial specifications and service requirements.



LIGHTING VOLTAGE REGULATOR

Converts varying input voltage and produces a constant regulated output voltage.



MEGOHMMETER

Ranges from 20 to 1000 Megohms. Applied voltage is 500 volts. This Megohmmeter is portable and runs off of two "C" size batteries. Two 6" long test leads are stored within the case.

ALSO AVAILABLE:

- Surge Arrestor
- Photocells for lighting
- Variable Frequency Drives (VFD)
- Phase monitors for 3 phase power
- Low water shut-off terminal connectors
- Armored protected power cable to prevent rodent Damage



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