


2017 Edition

Aqua Control

WATER FEATURES



A whole new generation of endless possibilities...



AQUA CONTROL WATER FEATURES

MISSION

Aqua Control's mission is to continually research & develop industry leading water features while providing our customers with the highest quality customer service & technical support in the industry through company teamwork, knowledge & education. This mission is built off of our dedication to promoting the health & appreciation of Earth's most precious resource, water.

HISTORY

Aqua Control, Inc. (ACI) was founded in 1970 as a manufacturer of Floating Aerators & Fountains. We have remained committed to extensive engineering to develop innovative new products with an emphasis on pumps that produce high volumes & high pressures, therefore capable of producing large patterns. In more recent years, having reached pump design & efficiency goals, ACI has refocused on motor longevity & providing more affordable pump components. These focuses have led to the creation of the Select Series 2 & Endur Series.

When combined with our highly engineered & efficient nozzles, Aqua Control offers uniquely beautiful spray patterns with superior aeration capabilities.



AQUA CONTROL CUSTOMER COMMITMENT

EXCEPTIONAL PRODUCT WARRANTIES

Listed below are the warranty periods for Aqua Control, Inc. product offerings. Please visit www.aquacontrol.com to view complete warranty statements.

- Evolution Series - Two Years
- Select Series 2 - Three Years*
 - *2-Year Extended Warranty Option on Floating Units
- Endur Series - Six Years
- Select Series Fountains - Three Years*
 - *2-Year Extended Warranty Option on Floating Units
- Titan Series - Three Years
- Waterfall Pump Systems - Three Years
- Lake Bed Aeration Pump Systems - Two Year Compressor Warranty
- Pond Bottom Circulators - Three Years
- Industry leading Technical Support & Customer Service.
- Aqua Control utilizes a highly trained & knowledgeable distribution network.
- Product offerings are thoroughly tested & expertly built with performance & safety in mind.
- Aqua Control presents accurate flow rates & spray pattern dimensions.
- Exceptional Features & Competitive Pricing.
- Well Defined Patterns.
- Aqua Control welcomes custom projects.



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Product Showcase

Become familiar with recently released Aqua Control, Inc. products.

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Evolution Series 1/2 HP

Matching beauty with function & ease, these units are the perfect solution for small water bodies. Customize with your choice of spray pattern & optional LED lighting.

10

Display Aerators Select Series 2 & Endur Series

High performance Display Aerators, re-engineered to offer the largest display aerator patterns in the industry with high pumping rates. Available in the Select Series 2 from 1HP to 7.5HP & the Endur Series from 2HP to 5HP.

29

Fountains Endur Series & Select Series

Fountains utilize pumps designed to create higher pressure at lower flow rates than Display Aerators. Fountains produce high, defined spray patterns. Available in the Endur Series from 2HP to 5HP and the Select Series from 1HP to 5HP.

42

Titan Series 7.5HP - 40HP

Perfect for large scale projects requiring maximum visual impact, these high horsepower Fountains create powerful, awe-inspiring displays.

60

Waterfall Pump Systems 1HP - 40HP

Waterfall Pumps are built with your choice of mount for use in wet wells, on solid pads, on pond bottoms, or even in the popular pondless designs. These pumps can be sized by Aqua Control for optimum effect & are designed for reliability.

66

Pond & Lake Aeration Products

Discrete aeration for a wide variety of water bodies. Multiple solutions address water circulation, aeration and water quality.

72

Water Feature Lighting

Aqua Control offers a variety of lighting options to create a dramatic nighttime spray pattern appearance, including energy efficient, long lasting, LED lighting.

76

Controls, Accessories & Cable

Find the correct cable gauge with our motor & lighting cable sizing charts. Customize your control panels for added convenience and additional effect to enhance your water features. Learn about other allied products offered for your convenience upon installation, use & upkeep of your water feature.

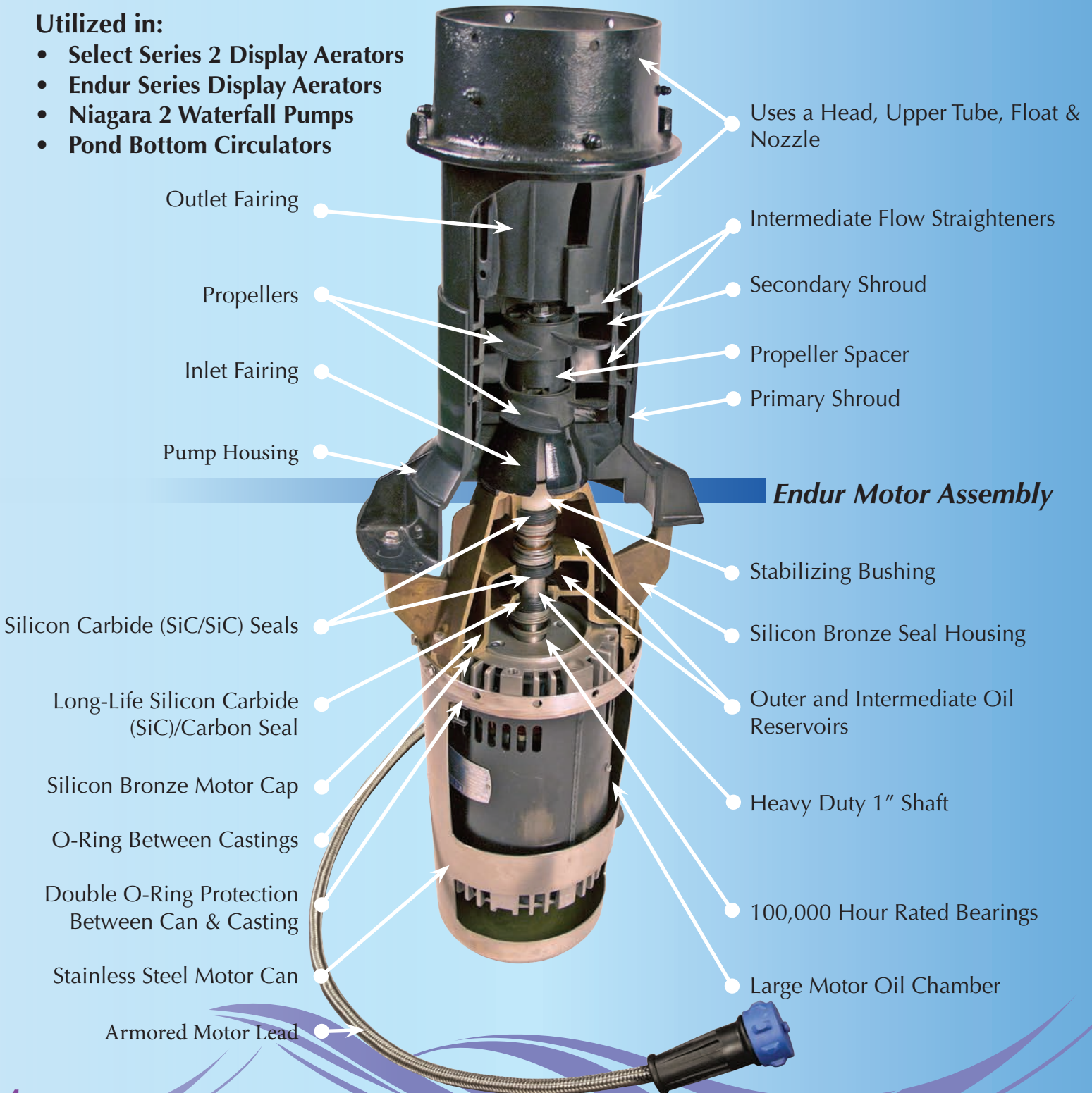


PRODUCT SHOWCASE

Composite Pump Assembly

Utilized in:

- Select Series 2 Display Aerators
- Endur Series Display Aerators
- Niagara 2 Waterfall Pumps
- Pond Bottom Circulators



Uses a Head, Upper Tube, Float & Nozzle

Outlet Fairing

Intermediate Flow Straighteners

Propellers

Secondary Shroud

Inlet Fairing

Propeller Spacer

Pump Housing

Primary Shroud

Endur Motor Assembly

Silicon Carbide (SiC/SiC) Seals

Stabilizing Bushing

Silicon Bronze Seal Housing

Long-Life Silicon Carbide (SiC)/Carbon Seal

Outer and Intermediate Oil Reservoirs

Silicon Bronze Motor Cap

Heavy Duty 1" Shaft

O-Ring Between Castings

100,000 Hour Rated Bearings

Double O-Ring Protection Between Can & Casting

Large Motor Oil Chamber

Stainless Steel Motor Can

Armored Motor Lead

*Stainless Steel Suction Screen not shown.

COMPOSITE PUMP ASSEMBLY

The Composite Pump Assembly has been introduced across many product lines: Select Series 2 Display Aerators, Endur Series Display Aerators, Niagara 2 Waterfall Pumps & Pond Bottom Circulators. This pump design was engineered with the goal of creating an economical pump with superior performance.

The use of high strength composite components in these pumps allows for components lighter than their metal predecessors and the ability for a more efficient design. The *Propellers* are lighter and better balanced, minimizing stress on the motor bearings. Composite *Intermediate Flow Straighteners* (IFS) allow for proper curvature of the vanes which maximizes pressure while increasing performance & efficiency. The *Outlet Fairing* allows for streamlined flow and eliminates the need for a heavy metal flow straightener. These components, when paired with our light weight composite shrouds, make for a streamlined composite pump assembly that eliminates performance robbing turbulence.

ENDUR MOTOR ASSEMBLY

The patented Endur Motor Assembly, exclusive to the Endur Series, was designed with one simple goal, to create the longest lasting submersible water feature motor.

We identify the key to longevity for these motors as a combination seal and oil reservoir design. Three individual *mechanical seals* separate three individual *oil reservoirs*. The first (outer) and second (intermediate) seals are highly abrasion resistant *SiC/SiC mechanical seals*. The third (inner most) seal is a long life *SiC/Carbon mechanical seal*. In between each seal pair is a large oil filled reservoir specifically designed to capture any water or debris that may enter the reservoir if a seal failure occurs. The design of these reservoirs allows water and debris to be trapped at the bottom of the reservoir, therefore keeping any foreign materials from coming in contact with the seal within the compromised reservoir. The oil used is a high-quality, long-lasting synthetic oil that offers excellent high and low temperature performance. This oil is also readily biodegradable and safe for use in marine environments.



EVOLUTION SERIES

Matching beauty with function and ease,
this economical 1/2 HP Fountain is the perfect solution for small water bodies.

FEATURES & BENEFITS

- Simple Plug & Play Operation
- Low operating costs
- Aerates up to 1/2 acre ponds
- Operates in 20" of water or more
- Available for Floating or Stationary applications
- Patented Design
- Reliable, no maintenance motor
- Ships in one box
- Optional cable lengths & quick disconnects
- 2-year Manufacturer's Warranty



WHAT COMES IN THE BOX?

- 1/2 HP, Single Phase Fountain (floating or stationary)
- 50', 100' or 175' cord, or quick disconnect motor lead
- 100' Mooring Rope & 2 Mooring Stakes
- Controller (60Hz Applications Only)
- Tornado & Torrent Spray Patterns



CONTROLLER INFORMATION

(60Hz Applications Only)

- CSA Listed
- 120V
- NEMA 3R Rainproof Enclosure
- Simple Plug & Play Operation
- Class A Human Rated GFCI
- 24 Hour Timer for motor & lights
- Photo Cell for optional lighting
- A 20 Amp Circuit Breaker is required on the power supply for proper operation & protection

UNIQUE LIGHTING OPTIONS

- 3W or 9W Brilliant LED Lights
- 9W RGB Lighting
- 4 lights per set
- 50', 100' or 175' light cord, or quick disconnect option for custom lengths
- Simple tool free, clip on attachment (floating)
- Available colors: Cool White (standard), Red, Blue, Green, Amber, Warm White





TORNADO

60Hz:
6' HT. x 15' DIA.

50Hz:
1,5m HT. x 3,7m DIA.

ARUM

60Hz:
6' HT. x 21' DIA.

50Hz:
1,4m HT. x 5,2m DIA.



CLUSTER ARCH

60Hz:
6' HT. x 16' DIA.

50Hz:
1,25m HT. x 2,7m DIA.



FLEUR DE LIS

60Hz:
7' HT. x 18' DIA.

50Hz:
1,5m HT. x 3m DIA.



SPIDER & ARCH

60Hz:
5.5' HT. x 18' DIA.

50Hz:
1,2m HT. x 4m DIA.



TIARA

60Hz:
7' HT. x 15' DIA.

50Hz:
1,5m HT. x 3,7m DIA.





TORRENT

60Hz:
1' HT. x 3' DIA.

50Hz:
0,3m HT. x 0,7m DIA.

METRO

60Hz:
6' HT. x 8' DIA.

50Hz:
1,3m HT. x 1,8m DIA.



STATIONARY EVOLUTION SERIES

- The Gusher Spray Patterns are exclusive to the Stationary Evolution Series
- Any Evolution Series Spray Pattern can be utilized on Stationary Evolution Fountain
- All Stationary Evolutions shown below are installed in a 22' diameter water basin
- Water Basin Depth from 20" to 27"

GUSHER 2



2' HT.
2' Approx. Splash DIA.
3' Water Basin DIA.

GUSHER 4



4' HT.
3' Approx. Splash DIA.
5' Water Basin DIA.

GUSHER 6



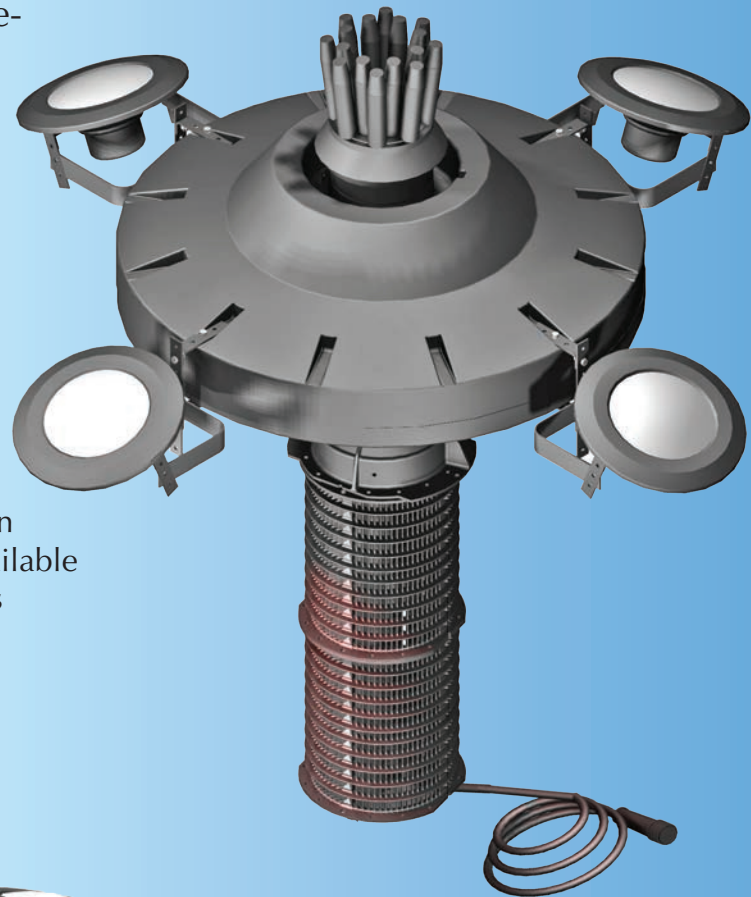
6' HT.
4' Approx. Splash DIA.
7' Water Basin DIA.



SELECT SERIES 2

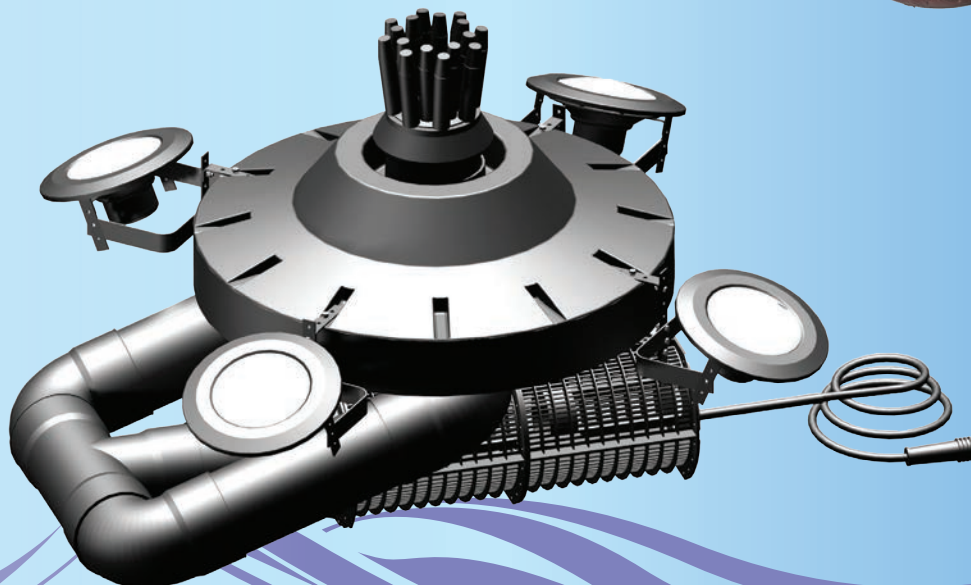
DISPLAY AERATORS

The Select Series 2 brilliantly combines beauty and functionality with increased efficiency. Ranging from 1 HP to 7.5 HP, these high performance display aerators are re-engineered to minimize stress on the motor and increase performance. Composed of high strength composite materials, these innovative display aerators offer the highest spray patterns of their type in the industry.



Features & Benefits

- 17 Display Aerator Spray Patterns Available
- High Strength Composite Pump Components
- High Performance
- Lightweight Propellers increase motor life
- Easy Clean, High Strength Composite Suction Screen
- Horizontal, Vertical & Stationary Configurations Available
- Extension Tubes available for Vertical Configurations
- Patent Pending
- Quick Disconnect
- Control Panel
- 3-Year Manufacturer's Warranty
- 2-Year Extended Warranty Option



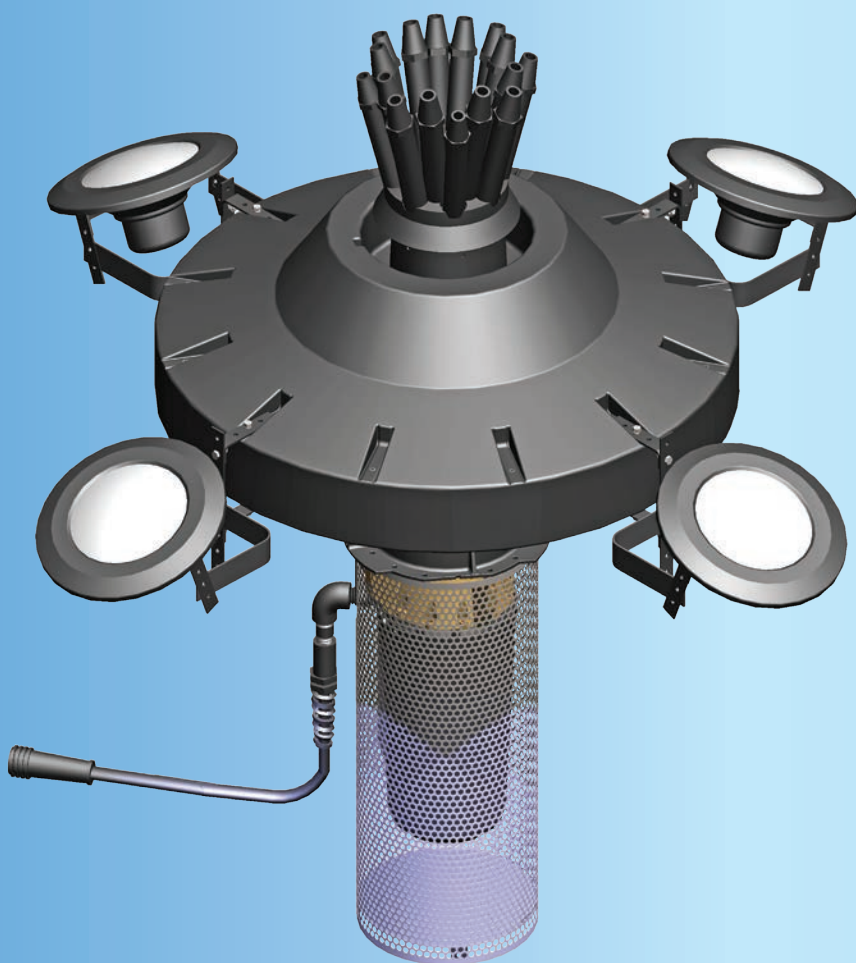
ENDUR SERIES

DISPLAY AERATORS

The Endur Series 2 HP to 5 HP Display Aerators were developed with longevity as a top priority. Incorporating Aqua Control's proven Select Series 2 Display Aerator pumps with the innovative triple mechanical seal design of the Endur's motor allows the Endur Series to be the most durable unit in today's water feature market.

Features & Benefits

- 17 Display Aerator Spray Patterns Available
- Custom Designed, High Durability Motor
- Environmentally Safe, Biodegradable Oil
- Vertical Configurations
- Stainless Steel Motor Can
- Stainless Steel Suction Screen
- Armored Motor Lead
- Quick Disconnect
- Control Panel
- 6-Year Manufacturer's Warranty





CLUSTER ARCH



2HP Cluster Arch

12 <i>Display Aerator</i>	60Hz (North America)							50Hz (International)						
	HP	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
					SS2		Endur					SS2		Endur
					Vert.	Horz.	Vert.					Vert.	Horz.	Vert.
1*	8	16	250	32	N/A	N/A	.75	2,4	4,9	60	0,8	N/A	N/A	
2	12	24	350	44	28	48	1.5	3,7	7,3	80	1,1	0,7	1,3	
3	14	28	450	44	28	48	2.2	4,3	8,5	100	1,1	0,7	1,3	
5	20	40	500	N/A	28	48	3.7	6,1	12,2	110	N/A	0,7	1,3	
7.5*	27	54	550	N/A	28	N/A	5.5	7,0	14,0	125	N/A	0,7	N/A	

*1HP & 7.5HP Available in SS2 Only.

CROWN GUSHER



2HP Crown Gusher

*1HP & 7.5HP Available in SS2 Only.

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.							
1*	9	12	250	32	N/A	N/A		.75	2,7	3,7	60	0,8	N/A
2	11	16	350	44	28	48	1.5	3,4	4,9	80	1,1	0,7	1,3
3	15	22	450	44	28	48	2.2	4,6	6,7	100	1,1	0,7	1,3
5	20	27	500	N/A	28	48	3.7	6,1	8,2	110	N/A	0,7	1,3
7.5*	25	35	550	N/A	28	N/A	5.5	6,5	9,1	125	N/A	0,7	N/A



DAFFODIL



5HP Daffodils

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.					
1*	10	25	250	32	N/A	N/A	.75	3,0	7,6	60	0,8	N/A	N/A
2	12	30	350	44	28	48	1.5	3,7	9,1	80	1,1	0,7	1,3
3	14	36	450	44	28	48	2.2	4,3	11,0	100	1,1	0,7	1,3
5	20	54	500	N/A	28	48	3.7	6,1	16,5	110	N/A	0,7	1,3
7.5*	30	75	550	N/A	28	N/A	5.5	7,8	19,4	125	N/A	0,7	N/A

*1HP & 7.5HP Available in SS2 Only.

DELMAR



3HP Delmar

*1HP & 7.5HP Available in SS2 Only.

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.							
1*	9	10	250	32	N/A	N/A	.75	2,7	3,0	60	0,8	N/A	N/A
2	12	13	350	44	28	48	1.5	3,7	4,0	80	1,1	0,7	1,3
3	14	15	450	44	28	48	2.2	4,3	4,6	100	1,1	0,7	1,3
5	22	26	500	N/A	28	48	3.7	6,7	7,9	110	N/A	0,7	1,3
7.5*	28	36	550	N/A	28	N/A	5.5	7,3	9,3	125	N/A	0,7	N/A

Display Aerator



DOUBLE ARCH



3HP Double Arch

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.								
1*	8	18	250	32	N/A	N/A	.75	2,4	5,5	60	0,8	N/A	N/A
2	12	22	350	44	28	48	1.5	3,7	6,7	80	1,1	0,7	1,3
3	15	32	450	44	28	48	2.2	4,6	9,8	100	1,1	0,7	1,3
5	20	48	500	N/A	28	48	3.7	6,1	14,6	110	N/A	0,7	1,3
7.5*	27	60	550	N/A	28	N/A	5.5	7,0	15,5	125	N/A	0,7	N/A

*1HP & 7.5HP Available in SS2 Only.

Display Aerator

FALLING WATERS



7.5HP Falling Waters

*1HP & 7.5HP Available in SS2 Only.

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.							
1*	-	-	-	-	-	-	.75	-	-	-	-	-	-
2	-	-	-	-	-	-	1.5	-	-	-	-	-	-
3	-	-	-	-	-	-	2.2	-	-	-	-	-	-
5	25	7	500	N/A	28	48	3.7	7,6	2,1	110	N/A	0,7	1,3
7.5*	33	10	550	N/A	28	N/A	5.5	8,5	2,6	125	N/A	0,7	N/A



LILY



3HP Lily

18 Display Aerator

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
			Vert.	Horz.	Vert.				Vert.	Horz.	Vert.		
1*	8	30	250	32	N/A	N/A	.75	2,4	9,1	60	0,8	N/A	N/A
2	10	36	350	44	28	48	1.5	3,0	11,0	80	1,1	0,7	1,3
3	14	40	450	44	28	48	2.2	4,3	12,2	100	1,1	0,7	1,3
5	19	60	500	N/A	28	48	3.7	5,8	18,3	110	N/A	0,7	1,3
7.5*	26	70	550	N/A	28	N/A	5.5	6,7	18,1	125	N/A	0,7	N/A

*1HP & 7.5HP Available in SS2 Only.

PENTALATOR



5HP Pentalator

*1HP & 7.5HP Available in SS2 Only.

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.							
1*	8	25	250	32	N/A	N/A		.75	2,4	7,6	60	0,8	N/A
2	12	30	350	44	28	48	1.5	3,7	9,1	80	1,1	0,7	1,3
3	16	42	450	44	28	48	2.2	4,9	12,8	100	1,1	0,7	1,3
5	22	50	500	N/A	28	48	3.7	6,7	15,2	110	N/A	0,7	1,3
7.5*	33	60	550	N/A	28	N/A	5.5	8,5	15,5	125	N/A	0,7	N/A



QUAD



5HP Quad

20 Display Aerator

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
				Vert.	Horz.	Vert.					Vert.	Horz.	Vert.
1*	9	25	250	32	N/A	N/A		.75	2,7	7,6	60	0,8	N/A
2	12	35	350	44	28	48	1.5	3,7	10,7	80	1,1	0,7	1,3
3	15	40	450	44	28	48	2.2	4,6	12,2	100	1,1	0,7	1,3
5	20	48	500	N/A	28	48	3.7	6,1	14,6	110	N/A	0,7	1,3
7.5*	30	80	550	N/A	28	N/A	5.5	7,8	20,7	125	N/A	0,7	N/A

*1HP & 7.5HP Available in SS2 Only.

SCEPTER



5HP Scepter

*1HP & 7.5HP Available in SS2 Only.

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
				Vert.	Horz.	Vert.					Vert.	Horz.	Vert.
1*	9	7	250	32	N/A	N/A		.75	2,7	2,1	60	0,8	N/A
2	10	8	350	44	28	48	1.5	3,0	2,4	80	1,1	0,7	1,3
3	14	10	450	44	28	48	2.2	4,3	3,0	100	1,1	0,7	1,3
5	25	20	500	N/A	28	48	3.7	7,6	6,1	110	N/A	0,7	1,3
7.5*	31	25	550	N/A	28	N/A	5.5	8,0	6,5	125	N/A	0,7	N/A



SPIDER & ARCH



5HP Spider & Arch

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.								
1*	8	30	250	32	N/A	N/A	.75	2,4	9,1	60	0,8	N/A	N/A
2	12	36	350	44	28	48	1.5	3,7	11,0	80	1,1	0,7	1,3
3	14	45	450	44	28	48	2.2	4,3	13,7	100	1,1	0,7	1,3
5	20	66	500	N/A	28	48	3.7	6,1	20,1	110	N/A	0,7	1,3
7.5*	32	100	550	N/A	28	N/A	5.5	8,3	25,9	125	N/A	0,7	N/A

*1HP & 7.5HP Available in SS2 Only.

SUPER LILY



2HP Super Lily

*1HP & 7.5HP Available in SS2 Only.

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.							
1*	8	30	250	32	N/A	N/A		.75	2,4	9,1	60	0,8	N/A
2	10	35	350	44	28	48	1.5	3,0	10,7	80	1,1	0,7	1,3
3	14	36	450	44	28	48	2.2	4,3	11,0	100	1,1	0,7	1,3
5	18	50	500	N/A	28	48	3.7	5,5	15,2	110	N/A	0,7	1,3
7.5*	-	-	-	-	-	-	5.5	-	-	-	-	-	-



TORNADO



2HP Tornado

24 Display Aerator

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.					
1*	7	20	250	32	N/A	N/A	.75	2,1	6,1	60	0,8	N/A	N/A
2	9	25	350	44	28	48	1.5	2,7	7,6	80	1,1	0,7	1,3
3	12	30	450	44	28	48	2.2	3,7	9,1	100	1,1	0,7	1,3
5	15	35	500	N/A	28	48	3.7	4,6	10,7	110	N/A	0,7	1,3
7.5*	20	55	550	N/A	28	N/A	5.5	5,2	14,2	125	N/A	0,7	N/A

*1HP & 7.5HP Available in SS2 Only.

TORRENT



2HP Torrent

*1HP & 7.5HP Available in SS2 Only.

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
				Vert.	Horz.	Vert.					Vert.	Horz.	Vert.
1*	1	3	500	32	N/A	N/A		.75	0,3	0,9	110	0,8	N/A
2	2	4	700	44	28	48	1.5	0,6	1,2	160	1,1	0,7	1,3
3	2	4	800	44	28	48	2.2	0,6	1,2	180	1,1	0,7	1,3
5	-	-	-	-	-	-	3.7	-	-	-	-	-	-
7.5*	-	-	-	-	-	-	5.5	-	-	-	-	-	-

Display Aerator



TRILLIUM



5HP Trillium

Display Aerator	60Hz (North America)							50Hz (International)						
	HP	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
					SS2		Endur					SS2		Endur
					Vert.	Horz.	Vert.					Vert.	Horz.	Vert.
1*	9	15	250	32	N/A	N/A	.75	2,7	4,6	60	0,8	N/A	N/A	
2	12	18	350	44	28	48	1.5	3,7	5,5	80	1,1	0,7	1,3	
3	16	26	450	44	28	48	2.2	4,9	7,9	100	1,1	0,7	1,3	
5	22	36	500	N/A	28	48	3.7	6,7	11,0	110	N/A	0,7	1,3	
7.5*	33	46	550	N/A	28	N/A	5.5	8,5	11,9	125	N/A	0,7	N/A	

*1HP & 7.5HP Available in SS2 Only.

TRIPLE TIER



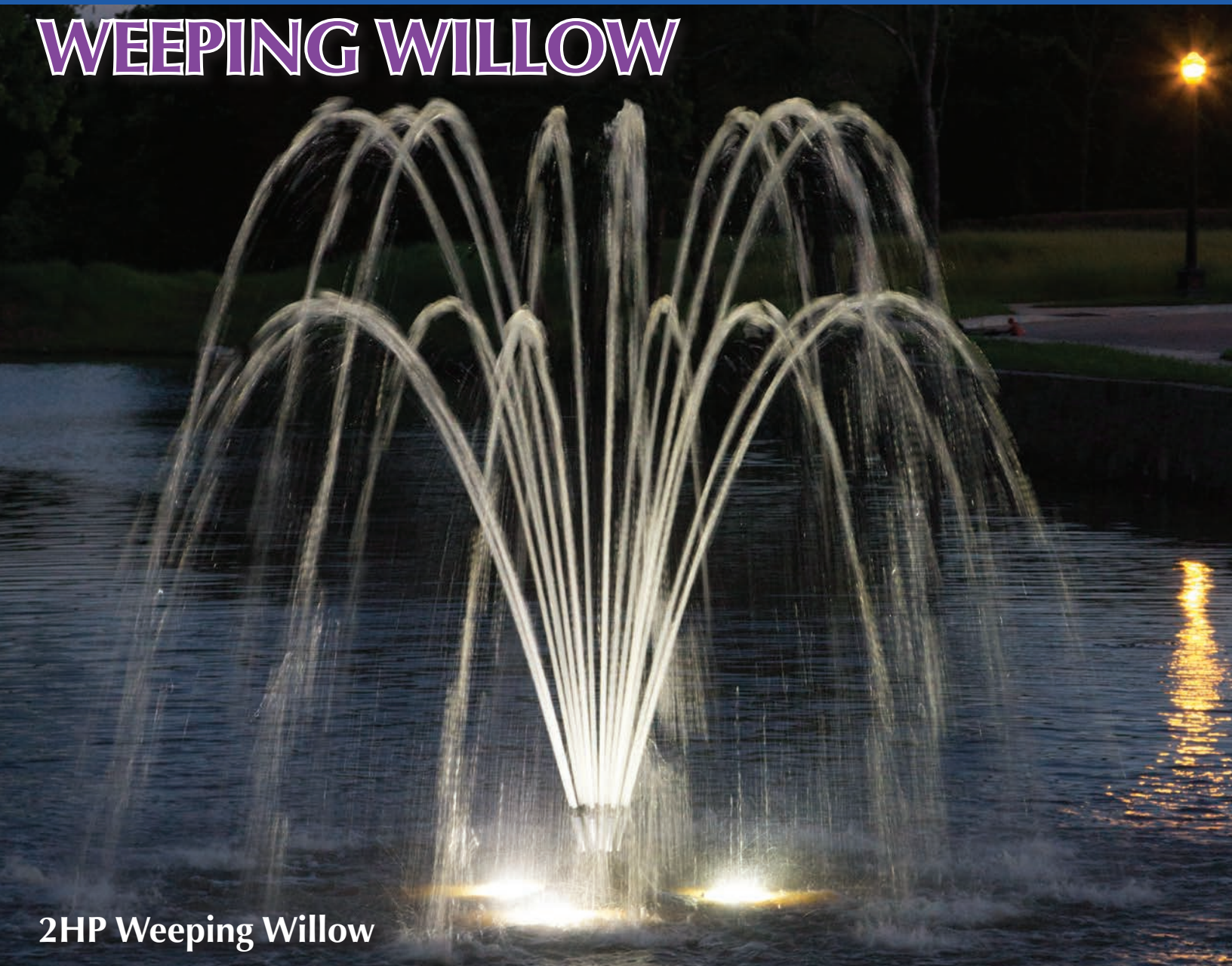
3HP Triple Tier

*1HP & 7.5HP Available in SS2 Only.

HP	60Hz (North America)						50Hz (International)						
	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				SS2		Endur					SS2		Endur
				Vert.	Horz.	Vert.					Vert.	Horz.	Vert.
1*	-	-	-	-	-	-	.75	-	-	-	-	-	-
2	9	18	350	44	28	48	1.5	2,7	5,5	80	1,1	0,7	1,3
3	12	24	450	44	28	48	2.2	3,7	7,3	100	1,1	0,7	1,3
5	18	36	500	N/A	28	48	3.7	5,5	11,0	110	N/A	0,7	1,3
7.5*	-	-	550	N/A	28	N/A	5.5	-	-	-	-	-	-



WEeping WILLOW



2HP Weeping Willow

28 <i>Display Aerator</i>	60Hz (North America)							50Hz (International)						
	HP	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
					SS2		Endur					SS2		Endur
					Vert.	Horz.	Vert.					Vert.	Horz.	Vert.
1*	8	12	250	32	N/A	N/A	.75	2,4	3,7	60	0,8	N/A	N/A	
2	12	15	350	44	28	48	1.5	3,7	4,6	80	1,1	0,7	1,3	
3	14	18	450	44	28	48	2.2	4,3	5,5	100	1,1	0,7	1,3	
5	20	25	500	N/A	28	48	3.7	6,1	7,6	110	N/A	0,7	1,3	
7.5*	33	35	550	N/A	28	N/A	5.5	8,5	9,1	125	N/A	0,7	N/A	

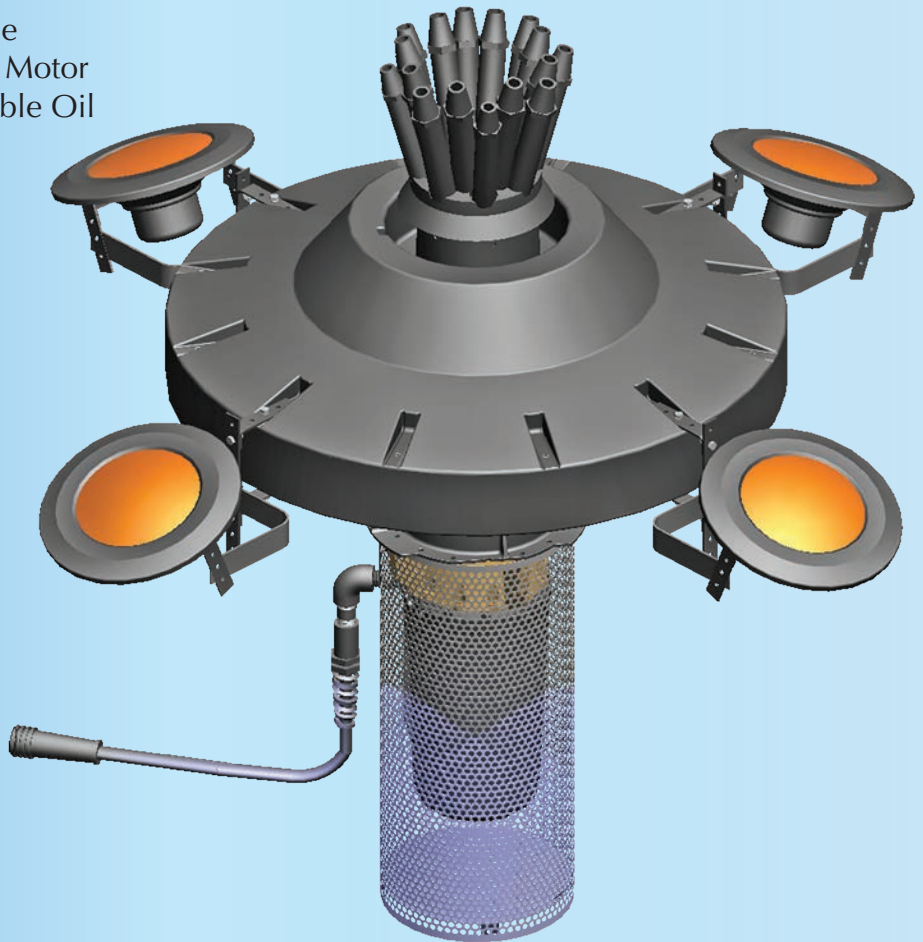
*1HP & 7.5HP Available in SS2 Only.

ENDUR SERIES FOUNTAINS

The Endur Series 2 HP to 5 HP Fountains were developed with longevity as a top priority. Incorporating Aqua Control's proven Select Series Fountain pumps with the innovative triple mechanical seal design of the Endur's motor allows the Endur Series to be the most durable unit in today's water feature market.

Features & Benefits

- 11 Fountain Spray Patterns Available
- Custom Designed, High Durability Motor
- Environmentally Safe, Biodegradable Oil
- Vertical Configurations
- Stainless Steel Motor Can
- Stainless Steel Suction Screen
- Armored Motor Lead
- Quick Disconnect
- Control Panel
- 6-Year Manufacturer's Warranty

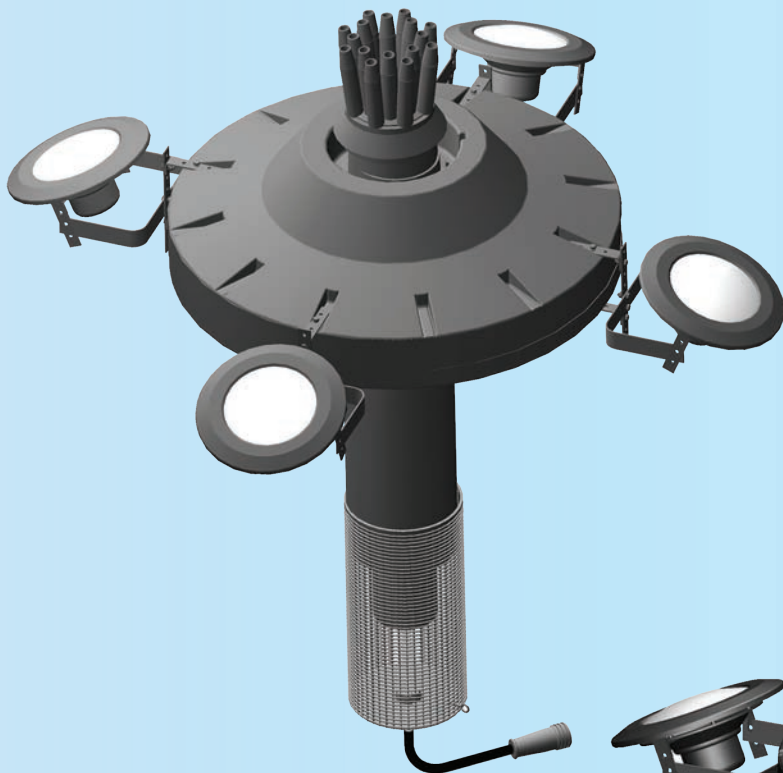




SELECT SERIES

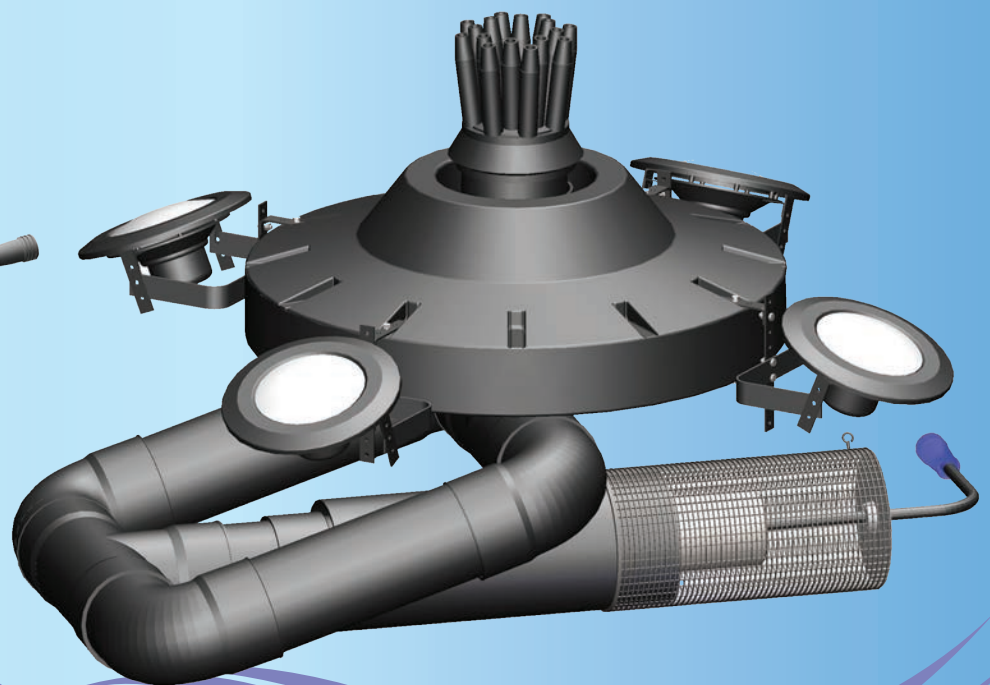
FOUNTAINS

The Select Series 1 HP to 5 HP Fountains are the cornerstone of Aqua Control's floating product offerings. These units are built using durable metal pump components designed to produce the high pressure necessary for extraordinarily tall and wide fountain spray patterns.



Features & Benefits

- 11 Fountain Spray Patterns Available
- Horizontal, Vertical & Stationary Configurations Available
- Extension Tubes available for Vertical Configurations
- Stainless Steel Suction Screen
- Quick Disconnects
- Control Panel
- 3-Year Manufacturer's Warranty
- 2-Year Extended Warranty Available





BUCKINGHAM



2HP Buckingham

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.								
1*	20	33	140	52	28	N/A	.75	3,6	7,3	24	1,3	0,7	N/A
2	22	44	160	56	28	48	1.5	4,6	9	28	1,4	0,7	1,3
3	25	54	180	56	28	48	2.2	5,2	10,9	32	1,4	0,7	1,3
5	28	59	210	62	28	48	3.7	9,2	15,5	40	1,8	0,7	1,3



CASCADE



3HP Cascade

The Cascade Fountain is not interchangeable with any other product or nozzle.

Fountains	60Hz (North America)							50Hz (International)						
	HP	PERFORMANCE			DEPTH			KW	PERFORMANCE			DEPTH		
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
					Select	Series	Endur					Select	Series	Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.									
1*	8	2	240	63	36	N/A	.75	1,6	0,4	24	1,3	0,7	N/A	
2	12	3	320	67	36	60	1.5	2,4	0,6	28	1,4	0,7	1,3	
3	16	4	400	67	36	60	2.2	4,8	1,2	32	1,4	0,7	1,3	
5	24	6	480	73	36	60	3.7	7,2	1,8	40	1,8	0,7	1,3	

*1HP Available in Select Series Only.



FLARE & SKY GEYSER



2HP & 5HP Flare & Sky Geysers

*1HP Available in Select Series Only.

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
			Vert.	Horz.	Vert.				Vert.	Horz.	Vert.		
1*	15	35	140	52	28	N/A	.75	3,9	7,2	24	1,3	0,7	N/A
2	20	40	160	56	28	48	1.5	5,5	10,9	28	1,4	0,7	1,3
3	25	45	180	56	28	48	2.2	6,2	12,0	32	1,4	0,7	1,3
5	35	55	210	62	28	48	3.7	11,0	16,0	40	1,8	0,7	1,3



FLEUR DE LIS



2HP Fleur De Lis

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.					
1*	20	30	140	52	28	N/A	.75	4,5	6,3	24	1,3	0,7	N/A
2	24	35	160	56	28	48	1.5	5,5	9,0	28	1,4	0,7	1,3
3	27	40	180	56	28	48	2.2	6,4	10,9	32	1,4	0,7	1,3
5	35	48	210	62	28	48	3.7	10,1	14,5	40	1,8	0,7	1,3

*1HP Available in Select Series Only.



FULL GEYSER



5HP Full Geyser

*1HP Available in Select Series Only.

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.								
1*	20	6	115	52	28	N/A	.75	4,7	1,5	24	1,3	0,7	N/A
2	24	8	130	56	28	48	1.5	6,0	1,8	28	1,4	0,7	1,3
3	30	10	150	56	28	48	2.2	7,6	2,0	32	1,4	0,7	1,3
5	34	12	165	62	28	48	3.7	10,3	3,0	40	1,8	0,7	1,3



MAJESTIC



2HP Majestic

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
			Vert.	Horz.	Vert.				Vert.	Horz.	Vert.		
1*	18	45	140	52	28	N/A	.75	4,2	9,0	24	1,3	0,7	N/A
2	24	60	160	56	28	48	1.5	4,9	10,9	28	1,4	0,7	1,3
3	26	65	180	56	28	48	2.2	5,8	13,6	32	1,4	0,7	1,3
5	30	70	210	62	28	48	3.7	9,0	16,3	40	1,8	0,7	1,3

*1HP Available in Select Series Only.



SKY GEYSER



5HP Sky Geysers & 5HP Pentalator

*1HP Available in Select Series Only.

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
			Vert.	Horz.	Vert.				Vert.	Horz.	Vert.		
1*	30	3	80	52	28	N/A	.75	6,3	0,6	24	1,3	0,7	N/A
2	35	4	100	56	28	48	1.5	7,6	1,0	28	1,4	0,7	1,3
3	38	5	110	56	28	48	2.2	11,5	1,5	32	1,4	0,7	1,3
5	50	7	120	62	28	48	3.7	15,0	2,0	40	1,8	0,7	1,3



SPOKE & TRELLIS



3HP Spoke & Trellis

Fountains

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
			Vert.	Horz.	Vert.				Vert.	Horz.	Vert.		
1*	16	40	140	52	28	N/A	.75	3,5	11,8	24	1,3	0,7	N/A
2	18	45	160	56	28	48	1.5	5,0	15,4	28	1,4	0,7	1,3
3	20	50	180	56	28	48	2.2	6,0	18,0	32	1,4	0,7	1,3
5	25	80	210	62	28	48	3.7	7,5	24,0	40	1,8	0,7	1,3

*1HP Available in Select Series Only.



TIARA



3HP Tiara

*1HP Available in Select Series Only.

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
Vert.	Horz.	Vert.	Vert.	Horz.	Vert.	Vert.	Horz.	Vert.					
1*	20	55	140	52	28	N/A	.75	3,8	11,0	24	1,3	0,7	N/A
2	24	63	160	56	28	48	1.5	4,6	13,7	28	1,4	0,7	1,3
3	28	70	180	56	28	48	2.2	5,4	16,3	32	1,4	0,7	1,3
5	34	90	210	62	28	48	3.7	7,9	25,6	40	1,8	0,7	1,3



TRELLIS



2HP Trellis

Fountains

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
			Vert.	Horz.	Vert.				Vert.	Horz.	Vert.		
1*	18	36	140	52	28	N/A	.75	4,2	7,3	24	1,3	0,7	N/A
2	22	44	160	56	28	48	1.5	5,0	9,1	28	1,4	0,7	1,3
3	26	52	180	56	28	48	2.2	5,9	10,0	32	1,4	0,7	1,3
5	30	60	210	62	28	48	3.7	7,7	15,6	40	1,8	0,7	1,3

*1HP Available in Select Series Only.



TRELLIS & SKY GEYSER



ZHP Trellis & Sky Geysers

*1HP Available in Select Series Only.

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)				Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)		
				Select	Series	Endur					Select	Series	Endur
			Vert.	Horz.	Vert.				Vert.	Horz.	Vert.		
1*	20	26	125	52	28	N/A	.75	4,5	4,5	24	1,3	0,7	N/A
2	25	36	140	56	28	48	1.5	6,0	7,2	28	1,4	0,7	1,3
3	30	39	160	56	28	48	2.2	6,9	8,1	32	1,4	0,7	1,3
5	35	42	190	62	28	48	3.7	10,6	12,7	40	1,8	0,7	1,3

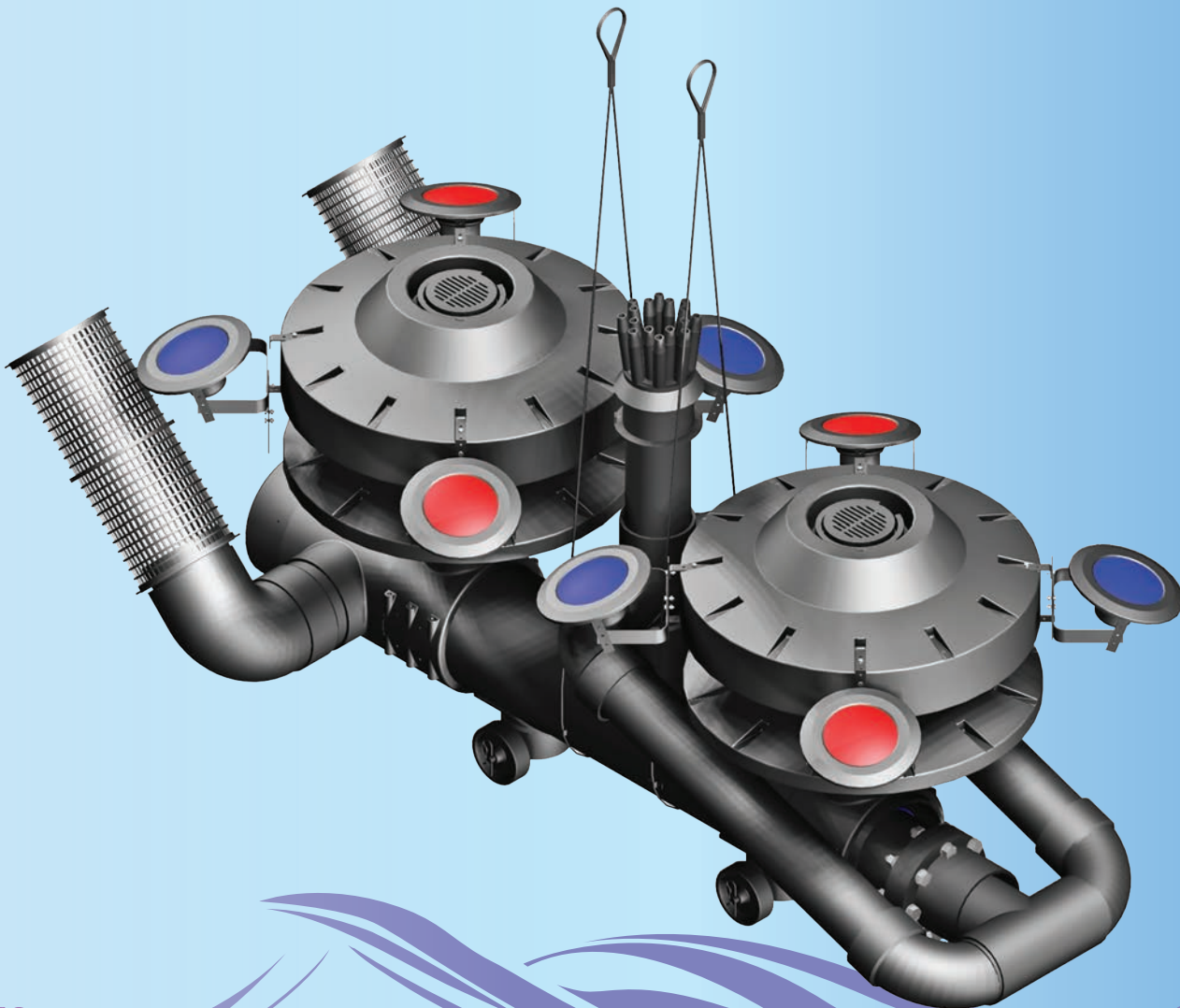


TITAN SERIES

Aqua Control's Titan Series Fountains range from 7.5HP to 40HP. They are perfect for large scale projects requiring maximum visual impact.

Features & Benefits

- 17 Interchangeable Spray Patterns
- Can operate in as little as 37 inches (1,3m) of water
- Can be lit with up to 20 submersible lights
- Wheels (Horizontal only) & Lifting Slings included for ease of installation
- Easy Clean, High Strength Composite Suction Screen
- Horizontal, Vertical & Stationary Configurations Available
- Powder Coated Steel Control Panel Included
- 3-Year Manufacturer's Warranty





BUCKINGHAM



30HP Buckingham

60Hz (North America)						50Hz (International)					
HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	37	50	400	120	48	5.5	10	13	82	3,1	1,3
10*	42	60	500	120	48	7.5	11	16	102	3,1	1,3
15*	49	70	600	120	48	11	13	18	123	3,1	1,3
20	55	75	700	120	48	15	15	22	143	3,1	1,3
25	60	80	800	120	48	18.5	16	24	163	3,1	1,3
30	70	85	900	120	48	22	19	26	204	3,1	1,3
40	80	100	1000	144	72	30	22	30	245	3,7	1,8

Titan

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



CASCADE



10HP Cascades

**The Cascade Fountain is not interchangeable with any other product or nozzle.*

HP	60Hz (North America)						KW	50Hz (International)					
	PERFORMANCE			DEPTH				PERFORMANCE			DEPTH		
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)		M3/H		Min. Operating Water Depth (Meters)					
				Vert.	Horz.			Vert.	Horz.				
7.5	25	8	1200	N/A	48	5.5	7	2	245	N/A	1,3		
10	30	10	1350	N/A	48	7.5	8	3	275	N/A	1,3		
15	40	12	1500	N/A	48	11	11	3	306	N/A	1,3		
20	50	17	1750	N/A	48	15	14	4	357	N/A	1,3		
25	60	20	1850	N/A	48	18.5	16	5	377	N/A	1,3		
30	-	-	-	-	-	22	-	-	-	-	-		
40	-	-	-	-	-	30	-	-	-	-	-		

**Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepower are offered in Three Phase.*



DAFFODIL



7.5HP Daffodil

60Hz (North America)						50Hz (International)					
HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	30	50	500	120	48	5.5	8	14	102	3,1	1,3
10*	35	60	550	120	48	7.5	9	16	133	3,1	1,3
15*	40	75	750	120	48	11	11	20	147	3,1	1,3
20	45	80	850	120	48	15	12	22	173	3,1	1,3
25	-	-	-	-	-	18.5	-	-	-	-	-
30	-	-	-	-	-	22	-	-	-	-	-
40	-	-	-	-	-	30	-	-	-	-	-

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



DOUBLE TRELLIS



15HP Double Trellis

Titan	60Hz (North America)						50Hz (International)					
	HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
					Vert.	Horz.					Vert.	Horz.
7.5*	30	33	400	120	48	5.5	8	14	102	3,1	1,3	
10*	32	35	500	120	48	7.5	9	16	133	3,1	1,3	
15*	35	40	600	120	48	11	11	20	147	3,1	1,3	
20	40	45	700	120	48	15	12	22	173	3,1	1,3	
25	-	-	-	-	-	18.5	-	-	-	-	-	
30	-	-	-	-	-	22	-	-	-	-	-	
40	-	-	-	-	-	30	-	-	-	-	-	

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepower are offered in Three Phase.



FLARE & SKY GEYSER



7.5HP Flare & Sky Geysers

60Hz (North America)						50Hz (International)					
HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	37	19	400	120	48	5.5	10	10	82	3,1	1,3
10*	42	21	500	120	48	7.5	11	11	102	3,1	1,3
15*	49	25	600	120	48	11	13	13	123	3,1	1,3
20	55	28	700	120	48	15	15	15	143	3,1	1,3
25	-	-	-	-	-	18.5	-	-	-	-	-
30	-	-	-	-	-	22	-	-	-	-	-
40	-	-	-	-	-	30	-	-	-	-	-

Titan

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



FLEUR DE LIS



40HP Fleur De Lis

Titan	60Hz (North America)						50Hz (International)					
	HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
					Vert.	Horz.					Vert.	Horz.
7.5*	40	40	400	120	48	5.5	11	11	82	3,1	1,3	
10*	45	45	500	120	48	7.5	12	12	102	3,1	1,3	
15*	50	50	600	120	48	11	14	14	123	3,1	1,3	
20	55	55	700	120	48	15	15	15	143	3,1	1,3	
25	60	60	800	120	48	18.5	16	16	163	3,1	1,3	
30	65	65	900	120	48	22	18	18	204	3,1	1,3	
40	75	75	1000	144	72	30	20	20	245	3,7	1,8	

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepower are offered in Three Phase.



GEYSER



10HP Geyser

60Hz (North America)						50Hz (International)					
HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	40	4	400	120	48	5.5	11	1,3	400	3,1	1,3
10*	45	4	500	120	48	7.5	12	1,5	500	3,1	1,3
15*	50	5	600	120	48	11	14	2,0	600	3,1	1,3
20	55	6	700	120	48	15	16	2,0	700	3,1	1,3
25	60	6	800	120	48	18.5	18	2,0	800	3,1	1,3
30	70	7	900	120	48	22	20	2,0	900	3,1	1,3
40	80	8	1000	144	72	30	22	3,0	1000	3,7	1,8

Titan

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



LILY



7.5HP Lily

Titan	60Hz (North America)						50Hz (International)					
	HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
					Vert.	Horz.					Vert.	Horz.
7.5*	25	50	500	120	48	5.5	7	14	102	3,1	1,3	
10*	27	55	650	120	48	7.5	8	15	133	3,1	1,3	
15*	30	60	800	120	48	11	8	16	163	3,1	1,3	
20	35	70	900	120	48	15	9	18	184	3,1	1,3	
25	40	80	1000	120	48	18.5	10	20	204	3,1	1,3	
30	45	90	1100	120	48	22	11	22	225	3,1	1,3	
40	-	-	-	-	-	30	-	-	-	-	-	

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



MAJESTIC



7.5HP Majestic

60Hz (North America)						50Hz (International)					
HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	30	60	400	120	48	5.5	8	16	82	3,1	1,3
10*	32	64	500	120	48	7.5	9	17	102	3,1	1,3
15*	35	70	600	120	48	11	10	20	123	3,1	1,3
20	40	80	700	120	48	15	11	22	143	3,1	1,3
25	-	-	-	-	-	18.5	-	-	-	-	-
30	-	-	-	-	-	22	-	-	-	-	-
40	-	-	-	-	-	30	-	-	-	-	-

Titan

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



QUAD



7.5HP Quad

Titan	60Hz (North America)						50Hz (International)					
	HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
					Vert.	Horz.					Vert.	Horz.
7.5*	30	80	400	120	48	5.5	8	22	82	3,1	1,3	
10*	32	86	500	120	48	7.5	9	23	102	3,1	1,3	
15*	35	94	600	120	48	11	10	25	123	3,1	1,3	
20	37	100	700	120	48	15	11	26	143	3,1	1,3	
25	-	-	-	-	-	18.5	-	-	-	-	-	
30	-	-	-	-	-	22	-	-	-	-	-	
40	-	-	-	-	-	30	-	-	-	-	-	

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepower are offered in Three Phase.



SCEPTER



40HP Scepter

60Hz (North America)						50Hz (International)					
HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	25	17	500	120	48	5.5	7	5,0	102	3,1	1,3
10*	30	20	600	120	48	7.5	8	5,5	123	3,1	1,3
15*	35	23	800	120	48	11	10	7,0	163	3,1	1,3
20	40	26	900	120	48	15	12	8,0	184	3,1	1,3
25	50	33	1000	120	48	18.5	14	9,0	204	3,1	1,3
30	60	40	1100	120	48	22	16	11,0	225	3,1	1,3
40	70	46	1200	144	72	30	20	13,0	245	3,7	1,8

Titan

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



SKY GEYSER



10HP Sky Geyser

Titan	60Hz (North America)						50Hz (International)					
	HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
					Vert.	Horz.					Vert.	Horz.
7.5*	40	4	400	120	48	5.5	11	1,0	82	3,1	1,3	
10*	50	5	450	120	48	7.5	14	1,5	92	3,1	1,3	
15*	60	6	550	120	48	11	16	2,0	112	3,1	1,3	
20	70	7	700	120	48	15	19	2,0	143	3,1	1,3	
25	80	8	750	120	48	18.5	22	2,0	153	3,1	1,3	
30	90	9	800	120	48	22	27	3,0	163	3,1	1,3	
40	100	10	1000	144	72	30	30	3,0	204	3,7	1,8	

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepower are offered in Three Phase.



SPOKE & SKY GEYSER



15HP Spoke & Sky Geysers

60Hz (North America)						50Hz (International)					
HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	30	90	500	120	48	5.5	8,0	24	92	3,1	1,3
10*	35	100	650	120	48	7.5	9,5	27	112	3,1	1,3
15*	40	120	800	120	48	11	10,5	33	143	3,1	1,3
20	45	130	850	120	48	15	12,0	35	165	3,1	1,3
25	-	-	-	-	-	18.5	-	-	-	-	-
30	-	-	-	-	-	22	-	-	-	-	-
40	-	-	-	-	-	30	-	-	-	-	-

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



SPOKE & TRELLIS



15HP Spoke & Trellis

Titan

HP	60Hz (North America)					KW	50Hz (International)				
	PERFORMANCE			DEPTH			PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	26	80	500	120	48	5.5	7,0	22	102	3,1	1,3
10*	28	85	650	120	48	7.5	7,5	23	132	3,1	1,3
15*	30	90	800	120	48	11	8,0	25	163	3,1	1,3
20	35	110	850	120	48	15	9,0	27	173	3,1	1,3
25	40	120	900	120	48	18.5	10,0	30	184	3,1	1,3
30	-	-	-	-	-	22	-	-	-	-	-
40	-	-	-	-	-	30	-	-	-	-	-

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepower are offered in Three Phase.



TIARA



20HP Tiara

HP	60Hz (North America)					KW	50Hz (International)				
	PERFORMANCE			DEPTH			PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
			Vert.	Horz.				Vert.	Horz.		
7.5*	36	100	400	120	48	5.5	10	27	82	3,1	1,3
10*	40	110	500	120	48	7.5	11	28	102	3,1	1,3
15*	45	120	600	120	48	11	12	30	123	3,1	1,3
20	55	130	800	120	48	15	15	32	163	3,1	1,3
25	60	140	900	120	48	18.5	16	34	184	3,1	1,3
30	70	150	1100	120	48	22	19	36	225	3,1	1,3
40	-	-	-	-	-	30	-	-	-	-	-

Titan

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



TRELLIS



15HP Trellis

Titan	60Hz (North America)						50Hz (International)					
	HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
		Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
					Vert.	Horz.					Vert.	Horz.
7.5*	28	58	500	120	48	5.5	7,6	15	102	3,1	1,3	
10*	30	60	650	120	48	7.5	8,0	16	133	3,1	1,3	
15*	32	64	800	120	48	11	8,7	17	163	3,1	1,3	
20	34	68	850	120	48	15	9,3	18	171	3,1	1,3	
25	36	72	900	120	48	18.5	10,0	20	184	3,1	1,3	
30	40	80	1100	120	48	22	11,0	22	225	3,1	1,3	
40	50	100	1200	144	72	30	14,0	28	265	3,7	1,8	

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



TRELLIS & SKY GEYSER



10HP Trellis & Sky Geysers

60Hz (North America)						50Hz (International)					
HP	PERFORMANCE			DEPTH		KW	PERFORMANCE			DEPTH	
	Ht. (Ft.)	Dia. (Ft.)	GPM	Min. Operating Water Depth (Inches)			Ht. (m)	Dia. (m)	M3/H	Min. Operating Water Depth (Meters)	
				Vert.	Horz.					Vert.	Horz.
7.5*	35	22	400	120	48	5.5	9	6	82	3,1	1,3
10*	40	27	500	120	48	7.5	10	7	102	3,1	1,3
15*	45	30	600	120	48	11	12	8	123	3,1	1,3
20	50	33	700	120	48	15	14	9	143	3,1	1,3
25	55	37	800	120	48	18.5	15	10	163	3,1	1,3
30	60	40	1000	120	48	22	16	11	204	3,1	1,3
40	70	47	1200	144	72	30	19	18	245	3,7	1,8

Titan

*Single Phase Titan Units are only offered in 7.5, 10 & 15HP. All horsepowers are offered in Three Phase.



WATERFALL PUMP SYSTEMS

Aqua Control Waterfall Pump Systems use the same reliable submersible pump technology that we have used for display aerators and fountains for years. Aqua Control Waterfall Pump Systems can be built with your choice of mount for use in wet wells, on solid pads, on pond bottoms, or even in the popular pondless design. Waterfall Pump Systems include a flexible discharge hose with check valve, electrical quick disconnect and a control panel.

Sled Style

- Can utilize any of the four ACI Waterfall Pump lines: Angel, Niagara, Niagara 2 or Yosemite
- Patented design allows pump to sit lightly on the pond bottom
- A flexible hose connects to pipe at the pond shore
- No expensive wet well needed
- Sled Style Pumps (excluding Yosemite) are approximately 3'H x 3.5'W x 5'L and can be installed in water as shallow as 4'

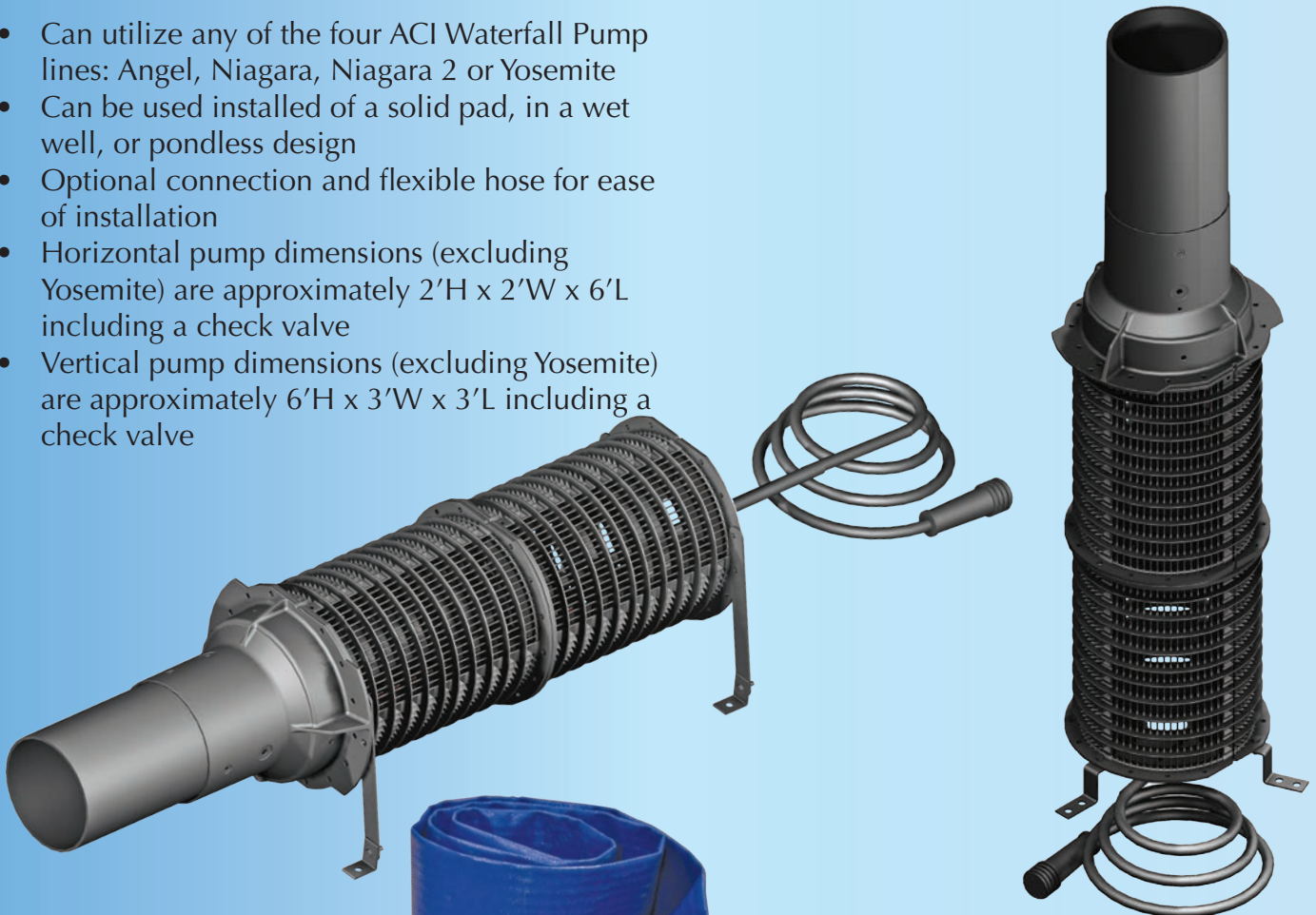
FREE Waterfall Sizing offered by Aqua Control, Inc.! Visit our **Waterfall Pump Sizing Form** available at www.aquacontrol.com to get started!



WATERFALL PUMP SYSTEMS

Horizontal & Vertical Styles

- Can utilize any of the four ACI Waterfall Pump lines: Angel, Niagara, Niagara 2 or Yosemite
- Can be used installed on a solid pad, in a wet well, or pondless design
- Optional connection and flexible hose for ease of installation
- Horizontal pump dimensions (excluding Yosemite) are approximately 2'H x 2'W x 6'L including a check valve
- Vertical pump dimensions (excluding Yosemite) are approximately 6'H x 3'W x 3'L including a check valve



Waterfall Accessories

- Low resistance, non-spring Check Valve design to prevent backflow
 - *Available in 4", 6" & 8"
 - *Your choice of glue fit connection, flange mount or quick disconnects
- UV resistant Flex Hose, reinforced for pressure and durability
- Lighting Options Available
- Easy clean, High Strength, Composite Suction Screen
- Electrical Quick Disconnect
- Control Panel
- 3-Year Manufacturer's Warranty



ANGEL SERIES

This 1 HP to 5 HP product line is built using centrifugal pumps designed to produce head* approaching 50' at lower flow (500 GPM Max.) than our other Waterfall Pump Systems.

ANGEL SERIES PERFORMANCE										
HP	KW	Flow Rates in GPM at Varying Head								
		10'	15'	20'	25'	30'	35'	40'	45'	50'
1 LH	2	100	60	25	-	-	-	-	-	-
1 HH	2	-	150	115	80	-	-	-	-	-
2	3	-	-	-	260	215	160	-	-	-
3	4	-	-	-	-	285	240	165	110	-
5	6	-	-	-	-	480	420	315	230	170

Piping loss needs to be considered when sizing pumps. LH= Low Head. HH = High Head.





NIAGARA SERIES

This 1 HP to 7.5 HP product line is built using axial pumps designed to produce very high flow (1,200 GPM Max.) with head* up to 20'.

NIAGARA SERIES PERFORMANCE								
HP	KW	Flow Rates in GPM at Varying Head						
		5'	7'	10'	12'	15'	20'	22'
1	2	440	350	-	-	-	-	-
2	3	660	590	410	-	-	-	-
3 HV	4	900	810	620	-	-	-	-
3 HH	4	530	480	420	360	285	-	-
5 HV	6	1080	1000	970	910	810	-	-
5 HH	6	810	800	760	730	680	550	450
7.5	9	1250	1200	1180	1100	1050	920	-

Piping loss needs to be considered when sizing pumps. HV= High Volume. HH = High Head.



*Head is the height that a pump will lift water at the selected GPM.

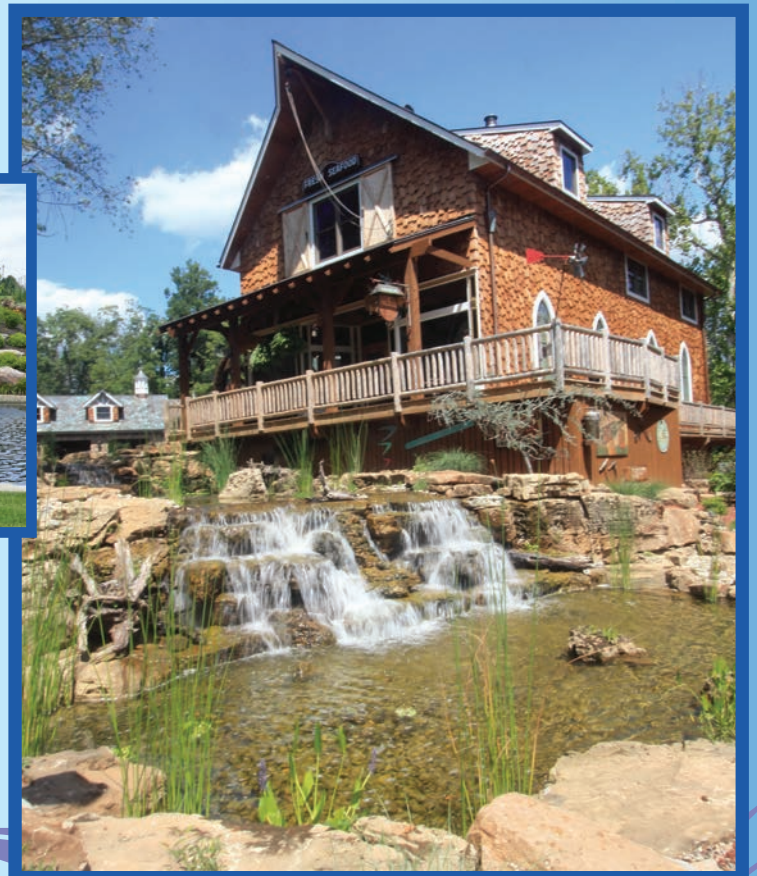


NIAGARA 2 SERIES

This 1 HP to 7.5 HP product line is a revolutionary redesign of the Niagara Series. Composed of the same high strength composite materials used in the Select Series 2, this innovative new waterfall pump line now offers better performance at higher head* up to 45'.

NIAGARA 2 SERIES PERFORMANCE										
HP	KW	Flow Rates in GPM at Varying Head								
		5'	10'	15'	20'	25'	30'	35'	40'	45'
1	2	350	200	85	-	-	-	-	-	-
2	3	490	400	250	-	-	-	-	-	-
3 HV	4	700	625	500	-	-	-	-	-	-
3 HH	4	430	400	325	250	150	-	-	-	-
5 HV	6	700	675	650	610	570	-	-	-	-
5 HH	6	610	575	530	500	450	375	225	-	-
7.5	9	725	700	675	675	635	610	575	535	475

Piping loss needs to be considered when sizing pumps. HV= High Volume. HH = High Head.



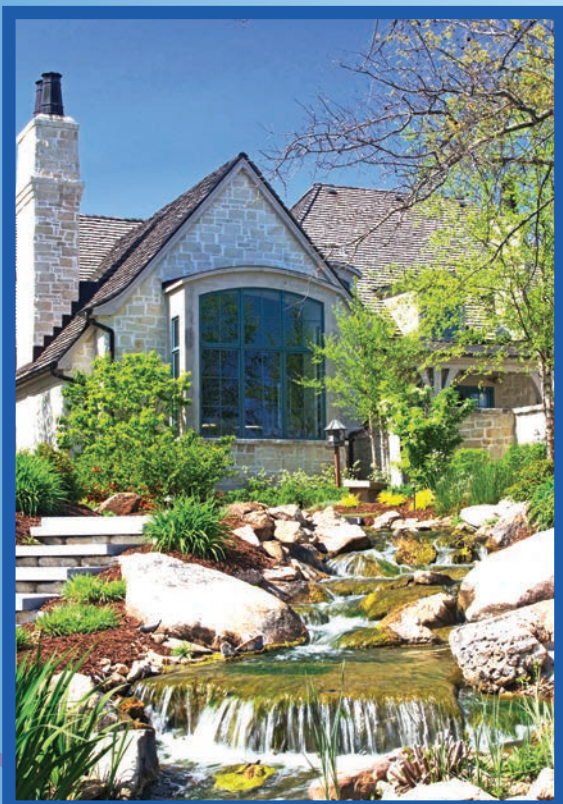


YOSEMITE SERIES

This 7.5 HP to 40 HP product line is built using turbine pumps designed to produce very high flow (1,200 GPM Max.) with higher head* up to 150' or more.

YOSEMITE SERIES PERFORMANCE								
HP	KW	Flow Rates in GPM at Varying Head						
		25'	35'	45'	55'	65'	75'	80'
7.5	8	-	-	360	200	-	-	-
10	11	-	-	600	525	450	340	280
15	16	-	-	-	620	550	470	420
HP	KW	Flow Rates in GPM at Varying Head						
		60'	75'	90'	105'	120'	135'	155'
20	21	910	700	370	-	-	-	-
25	26	-	-	760	420	-	-	-
30	31	-	-	1060	890	660	-	-
40	42	-	-	-	1170	1000	810	570

Piping loss needs to be considered when sizing pumps.



*Head is the height that a pump will lift water at the selected GPM.

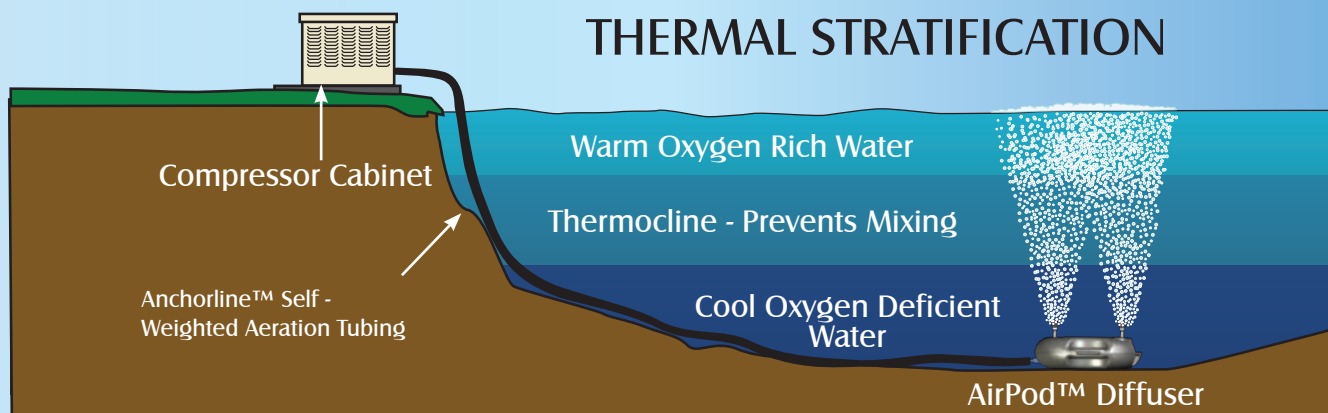


THE AQUA CONTROL SOLUTION

It's all about *entraining** water and that starts with our Aqua Control AirPod™ Diffuser design. Featuring a unique, ergonomic design, the AirPod™ diffuser base is constructed of polyethylene and is molded for rigidity. The base features handles for ease of installation and holes designed to allow the AirPod™ to sink to the pond bottom evenly. The AirPod™ Diffuser incorporates your choice of tube or disc style diffuser membranes. Tube style diffuser membranes entrain water from 360° around the tube, allowing them to reach deeper water while the height of the diffuser base prevents them from disturbing the actual pond bottom. Disc style diffuser membranes entrain water from the top of the membrane up through the water column.

So why is entraining water in Pond & Lake Bed Aeration so important? It all has to do with the mixing and blending of the water column. Thermal stratification occurs in most ponds during the summer. Thermal stratification is the layering of warmer, oxygen rich water near the surface on top of cooler, oxygen deprived water towards the bottom. The transition between these layers is called the thermocline. The differences in water density at the thermocline prevents the water from mixing. Aqua Control Diffused Aeration Systems pump air through the diffuser membranes. This air then makes its way to the pond surface in the form of millions of tiny bubbles. As these bubbles travel upward through the layers of thermal stratification they entrain water with them. This water is carried to the surface where it becomes naturally oxygenated, thus aerating the waterbody. By aerating and circulating from the pond bottom up, the toxic gasses previously trapped under the thermocline can escape, thereby providing a balanced habitat for aquatic life. The aeration also creates aerobic conditions near the pond bottom where microbial processes can naturally break down nutrients which would otherwise be used in the production of noxious aquatic weeds and algae.

**Entrain* = to draw in and transport



FEATURES & BENEFITS OF LAKE BED AERATION

- Breaks up thermal stratification throughout the water column allowing the entire water column to be oxygenated and eliminating highs and lows in both temperature and oxygen levels.
- Increase the breakdown of aquatic waste by providing the habitat beneficial for aerobic bacteria to flourish.
- When operated continuously in freezing climates, these pumps will keep open areas in the ice to allow toxic gases to escape and increases the oxygen level in the water.
- Prevents fish kills and allows wildlife access to water in freezing conditions.



LAKE BED AERATORS

AirPro™ & AirEco™ Aeration Systems

Aqua Control Lake Bed Aerators are designed to move large volumes of water from near the pond bottom to the surface where it spreads out in contact with the air and becomes oxygenated. Water movement is created by millions of tiny air bubbles being emitted by the AirPod™ diffuser(s) that rise and move water with them.

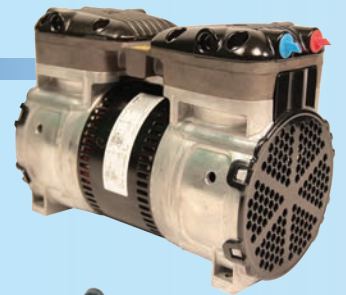
Cabinets

- 24 Hour Timer included
- 6" high-output cooling fan included for each compressor
- GFCI included for 120V systems
- 3" Polypropylene Equipment Base comes standard with every cabinet eliminating the need for a footing at site
- **AirPro™**'s Powder Coated Aluminum Outdoor Enclosure features a LIMITED LIFETIME WARRANTY against corrosion in fresh water applications
- **AirEco™**'s Fiberglass NEMA Type 3R Outdoor Enclosure features a 2-Year Manufacturer's Warranty



Compressors

- 1/2 HP Dual Piston Oil Free Compressors
- Quiet operation - Rated at less than 65 decibels
- Maintenance kits available to optimize life expectancy
- Compressors feature a 2-Year Manufacturer's Warranty



AirPod™ Diffusers

- Diffuser Membranes are self cleaning
- Diffuser Bases are self-weighted
- Check Valves incorporated to prevent backflow
- Diffusers release air inches from the pond bottom while still preventing disruption of settled organics
- Alternative Disc Diffuser Membranes available
- Diffuser Membranes feature thousands of minute holes to optimize smaller air bubbles, entraining more water and creating greater volumes of water movement
- Diffusers feature a 5-Year Manufacturer's Warranty



AnchorLine™ Self-Weighted Air Tubing

- Lead-free construction
- 3/8" ID Tubing for shorter runs
- 5/8" ID Tubing for long runs and maximum efficiency
- AnchorLine™ Self-Weighted Air Tubing features a 15-Year Manufacturer's Warranty





LAKE BED AERATORS

Lake Bed Aeration Systems	AirPro Diffusers Included	Amps @ 120v	Amps @ 230v 60Hz/50Hz	Airflow CFM @ 15 PSI	Airflow m3/h @ 1.0 Bar	GPM Pumped 60Hz/50Hz	KW 60Hz/50Hz
AirPro/AirEco 1	1	6.6	3.3/2.9	4	5.3	4,200/3,600	.42
AirPro/AirEco 2	2	6.6	3.3/2.9	4	5.3	8,300/7,100	.42
AirPro/AirEco 3	3	6.6	3.3/2.9	4	5.3	12,500/10,700	.42
AirPro 4	4	13.2	6.6/5.8	8	10.6	16,500/14,200	.84
AirPro 5	5	13.2	6.6/5.8	8	10.6	21,000/18,000	.84
AirPro 6	6	13.2	6.6/5.8	8	10.6	25,000/21,500	.84



Depth (Ft.)	AirPro/AirEco Requirements per Acre based on Water Depth & 1 Turnover per Day					
	AirPro 1 AirEco 1	AirPro 2 AirEco 2	AirPro 3 AirEco 3	AirPro 4	AirPro 5	AirPro 6
6'	2 Acres	4 Acres	6 Acres	8 Acres	10 Acres	12 Acres
10'	1.5 Acres	3 Acres	4.5 Acres	6 Acres	7.5 Acres	9 Acres
20'	1 Acres	2 Acres	3 Acres	4 Acres	5 Acres	6 Acres
30'	0.75 Acres	1.5 Acres	2.25 Acres	3 Acres	3.75 Acres	4.5 Acres
35'	0.5 Acres	1 Acres	1.5 Acres	2 Acres	2.5 Acres	3 Acres



SHALLOW POND AERATORS

Aqua Control's Shallow Pond Diffused Aeration Systems are energy efficient, simple to install and inexpensive. They are designed to aerate and degas various sized water bodies up to 6' deep.

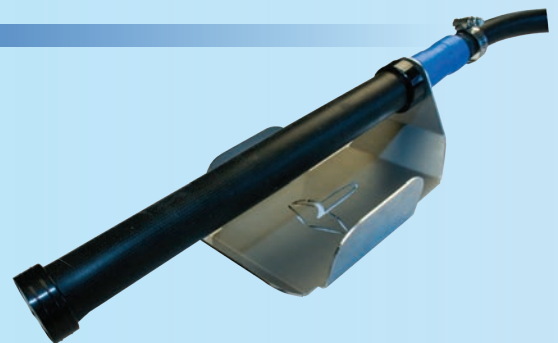
Compressors

- Compressors are oil-free and housed in a heavy, cast aluminum, rainproof outdoor enclosure
- Operate from 32 to 48 decibels
- Pump high volumes of air at low pressure
- Includes a manifold made of brass and stainless steel, as opposed to plastic, to allow for cold weather operation
- Designed for continuous operation
- 2-Year Manufacturer's Warranty



Diffuser Assembly

- Stainless Steel Diffuser Base designed to land upright when sinking into the pond
- Large area of diffuser base resists settling into the pond bottom.
- Check Valve incorporated to prevent backflow
- 12" Diffuser Tubes release air inches from the pond bottom while still preventing disruption of settled organics
- 2-Year Manufacturer's Warranty



AnchorLine™ Self-Weighted Air Tubing

- Lead-free construction
- 3/8" ID Tubing for SP10s, SP20s & shorter runs
- 5/8" ID Tubing for long runs and maximum efficiency
- AnchorLine™ Self-Weighted Air Tubing features a 15-Year Manufacturer's Warranty





SHALLOW POND AERATORS

Systems	Approximate Pond Surface Area	Approximate Pond Volume	Amps 60Hz 120v/50Hz 230v	Wattage 60Hz/50Hz	Max CFM Air Output	Noise Level (dB)	Diffusers Included
SP10	4,000 sq. ft.	180,000 gal.	0.8/0.44	38/38	1.7	32	1
SP20	8,000 sq. ft.	360,000 gal.	1.6/0.94	71/71	3.7	36	2
SP30	12,000 sq. ft.	540,000 gal.	2.1/0.72	100/100	5.3	45	3
SP40	24,000 sq. ft.	1,080,000 gal.	3.4/1.2	250/210	8.2	48	4

SP10

Package Includes:
Compressor, 25' of 3/8" Anchorline™ Self-Weighted Air Tubing and one stainless steel diffuser assembly.
Maximum tubing length 350'.

SP20

Package Includes:
Compressor, 100' of 3/8" Anchorline™ Self-Weighted Air Tubing, valve manifold and two stainless steel diffuser assemblies.
Maximum tubing length 166'.

SP30

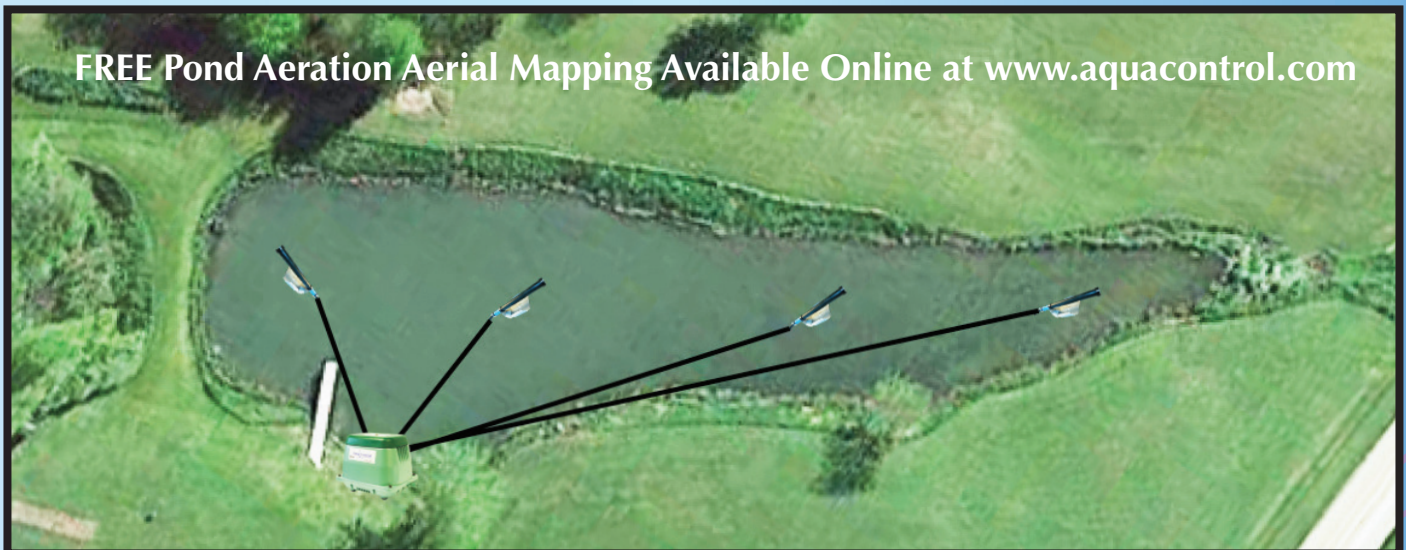
Package Includes:
Compressor, valve manifold and three stainless steel diffuser assemblies. (3/8" or 5/8" Anchorline™ Self-Weighted Air Tubing sold separately)
Maximum tubing length 700'.

SP40

Package Includes:
Compressor, valve manifold and four stainless steel diffuser assemblies. (3/8" or 5/8" Anchorline™ Self-Weighted Air Tubing sold separately)
Maximum tubing length 530'.

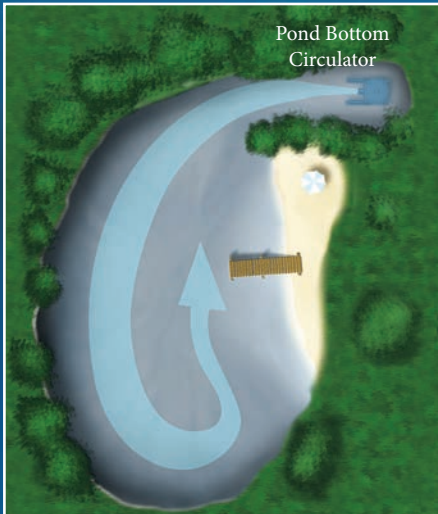


FREE Pond Aeration Aerial Mapping Available Online at www.aquacontrol.com





POND BOTTOM CIRCULATOR



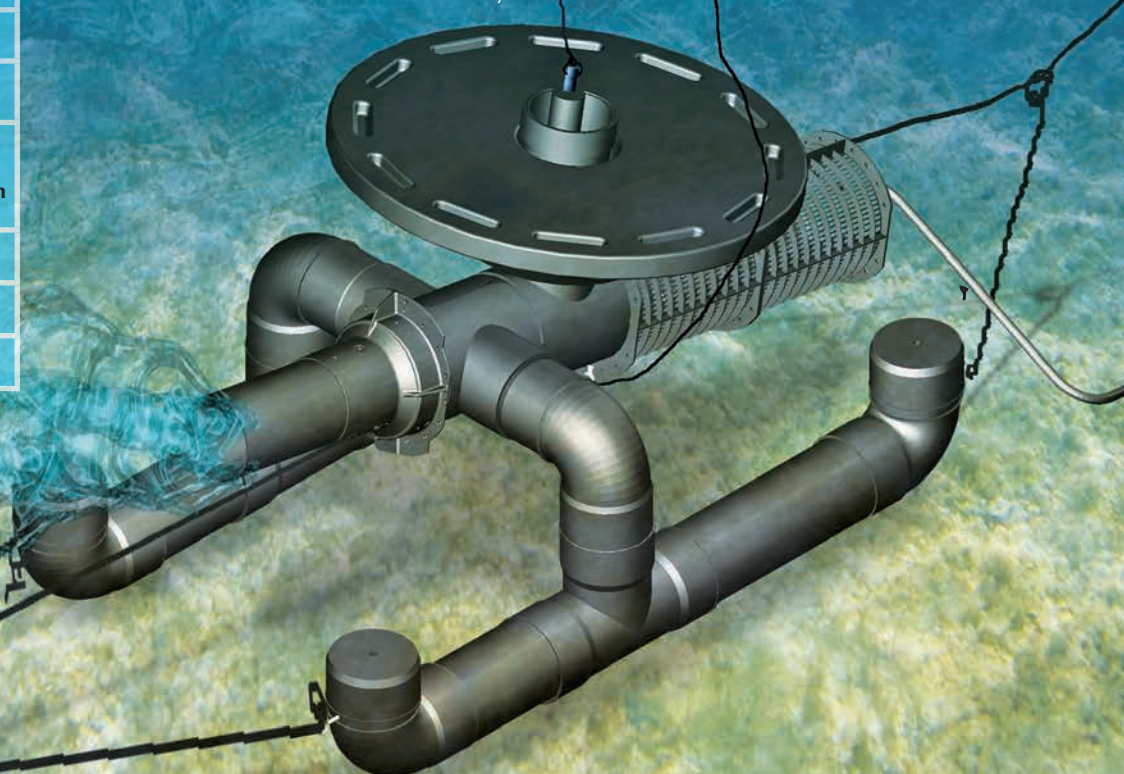
The patented Pond Bottom Circulator design uses the high velocity Select Series 2 Aerator Pump to circulate large volumes of water within a pond or cove. When immersed, the Pond Bottom Circulator design allows the unit to sit lightly on the pond bottom without sinking into the silt.

The high velocity flow allows the circulation to extend to a considerable distance so that one or two Pond Bottom Circulators can create complete circulation in a pond or cove, depending on the size. In addition, the flow is angled slightly upwards so the deep, oxygen deficient water is gradually directed to the surface. This movement breaks up the thermocline to provide natural aeration. This is an excellent method of enhancing pond water quality without having a surface pattern.

Features & Benefits

- Patented Sled Design allows unit to sit lightly on pond bottom without sinking into the silt
- Finder Float & Bar Weights included for ease of handling upon install and removal
- Can be operated year round and used as a de-icer
- High Strength Composite Pump Components
- Easy to Clean, High Strength Composite Suction Screen
- Quick Disconnect
- Control Panel
- 3-Year Manufacturer's Warranty

60Hz (North America)		
HP	GPM	Min. Operating Water Depth (Inches)
1	550	36
2	840	36
3	1000	36
50Hz (International)		
HP	M3/H	Min. Operating Water Depth (Meters)
1	125	1
2	190	1
3	230	1





WATER FEATURE LIGHTING

Aqua Control Water Feature Lighting brings nighttime spray patterns to life. Enhance dramatic water feature displays with PAR56 LED, incandescent & halogen lighting available in a range of colors, wattages, fixtures & sequencing options.

35W LED LIGHTING



35W LED Lighting is offered in a variety of fixture types for a wide range of applications. 35W LEDs bring a crisp brilliance to any nighttime water feature display.

Features:

- Fixture Type: Composite, Stainless Steel, Copper or Saltwater Bronze
- Color Availability: Cool White, Warm White, Red, Green, Blue & Amber
- Available with RGB Technology
- 85-265VAC, 60Hz/50Hz
- 1-Year Manufacturer's Warranty

300W INCANDESCENT LIGHTING



300W Incandescent Lighting, offered for a wide range of applications, is the traditional go-to for basic lighting needs.

Features:

- Fixture Type: Stainless Steel, Copper or Saltwater Bronze
- 120VAC 60Hz or 220VAC 50Hz
- 30-Day Manufacturer's Warranty

500W HALOGEN LIGHTING



500W Halogen Lighting is the ideal option for large water feature spray patterns and any application requiring colored lenses.

Features:

- Fixture Type: Copper or Saltwater Bronze
- 120VAC 60Hz or 220VAC 50Hz
- 30-Day Manufacturer's Warranty

WATER FEATURE LIGHTING

Submersible Fixtures

COMPOSITE

- Freshwater & Saltwater Applications
- High Strength ABS Composite Plastic
- 35W LED Bulbs
- Available in (2) to (4) Fixtures per Light Set
- 2-Year Manufacturer's Warranty*

STAINLESS STEEL

- Freshwater Applications Only
- Silicone Upper & Lower Gaskets
- 35W LED or 300W Incandescent Bulbs
- Available in (2) to (4) Fixtures per Light Set
- 3-Year Manufacturer's Warranty*

COPPER

- Freshwater Applications Only
- UL Listed Submersible Fixture
- Cast Bronze Rings & Copper Body
- Silicone Rubber Gasket
- Color Lens Available: Clear, Amber, Blue, Green, Red & Turquoise
- 35W LED, 300W Incandescent or 500W Halogen Bulbs
- Available in (2) to (4) Fixtures per Light Set
- 3-Year Manufacturer's Warranty*

SALTWATER BRONZE

- Saltwater Applications
- UL Listed Submersible Fixture
- Made entirely of Cast Bronze
- Silicone Rubber Gasket
- Color Lens Available: Clear, Amber, Blue, Green, Red & Turquoise
- 35W LED, 300W Incandescent or 500W Halogen Bulbs
- Available in (2) to (4) Fixtures per Light Set
- 3-Year Manufacturer's Warranty*

*Manufacturer's Warranty Excludes Bulbs, Lenses & Gaskets.



LIGHTING RECOMMENDATIONS

SELECT SERIES, SELECT SERIES 2 & ENDUR SERIES

A light set is comprised of 2,3 or 4 lights terminating in a quick disconnect. The maximum number of lights for the above listed series is 12.

- | | | | |
|---------------------|------------------|-----------------|------------------|
| A = 3x35W LED Flood | C = 3x300W Flood | E = 3x300W Spot | G = 4x500W Flood |
| B = 4x35W LED Flood | D = 3x500W Flood | F = 3x500W Spot | H = 4x500W Spot |

SPRAY PATTERNS	INCANDESCENT OR HALOGEN LIGHTING		LED LIGHTING	
	1 & 2 HP	3 - 7.5 HP	1 & 2 HP	3 - 7.5 HP
Cluster Arch, Crown Gusher, Scepter, Tornado	C	D	A	B
Daffodil, Delmar, Double Arch, Lily, Pentatlator, Quad, Spider & Arch, Super Lily, Trillium, Triple Tier, Weeping Willow	C	G	A	B
Cascade, Full Geyser, Sky Geyser	E	H	B	B
Majestic, Trellis, Spoke & Trellis, Buckingham, Flare & Sky Geyser, Fleur de Lis, Tiara, Trellis & Sky Geyser	C	G	A	B

ACI recommends utilizing LED colored lights when colored lighting is desired. Colored lenses used with incandescent or halogen bulbs diminish the luminosity of the bulb.

SPRAY PATTERNS	RANDOM SEQUENCING		RAMP SEQUENCING	
	1 & 2 HP	3 - 7.5 HP	1 & 2 HP	3 - 7.5 HP
Cluster Arch, Crown Gusher, Scepter, Tornado	A + A	A + A + A	D + D	D + D + D
Daffodil, Delmar, Double Arch, Lily, Pentalator, Quad, Spider & Arch, Super Lily, Trillium, Triple Tier, Weeping Willow	B + B	A + A + A	D + F	G + G + H
Cascade, Full Geyser, Sky Geyser	A + A	A + A + A	F + F	F + F + F
Majestic, Trellis, Spoke & Trellis, Buckingham, Flare & Sky Geyser, Fleur de Lis, Tiara, Trellis & Sky Geyser	A + A + A	B + B + B	D + F	G + G + H

LED Lighting is only compatible with Random Sequencing. Incandescent & Halogen are available for both Random and Ramp Sequencing.

RANDOM LIGHT SEQUENCING

The adjustable Random Sequencer is an economical device that easily and automatically creates a random 'on-off' light sequence for dramatic lighting effects. Light Sequencing is a process that operates two or more different colored light sets so that one set, more than one set, or all sets, are on or off in an adjustable random pattern to create a spectacular colored light show.

RAMP LIGHT SEQUENCING

Ramp Light Sequencing is available through the use of a Fountain Manager in the Control Panel. Ramping is the brightening and dimming of multiple light sets. For example, one light set may be brightening while the next set is dimming. This allows for a dynamic light show and the mixing of colors.

LIGHTING RECOMMENDATIONS

TITAN SERIES

A light set is comprised of 2,3 or 4 lights terminating in a quick disconnect. The maximum number of lights for the above listed series is 20.

A = 3x35W LED Flood
B = 4x35W LED Flood

C = 3x300W Flood
D = 3x500W Flood

E = 3x300W Spot
F = 3x500W Spot

G = 4x500W Flood
H = 4x500W Spot

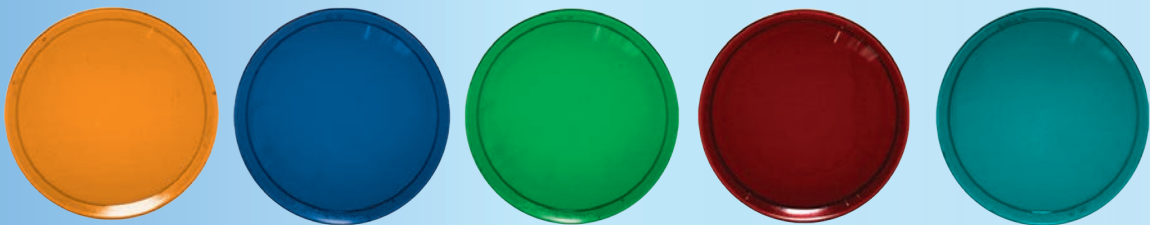
SPRAY PATTERNS	INCANDESCENT OR HALOGEN LIGHTING		LED LIGHTING	
	7.5 - 15 HP	20 - 40 HP	7.5 - 15 HP	20 - 40 HP
Double Trellis, Majestic, Spoke & Trellis, Trellis	D + D	G + G	A + A	B + B
Buckingham, Fleur de Lis, Tiara, Daffodil, Lily, Quad, Flare & Sky Geyser, Spoke & Sky Geyser, Trellis & Sky Geyser	D + F	G + H	B + B	B + B
Cascade, Geyser, Scepter, Sky Geyser	F + F	H + H	B + B	B + B

ACI recommends utilizing LED colored lights when colored lighting is desired. Colored lenses used with incandescent or halogen bulbs diminish the luminosity of the bulb.

SPRAY PATTERNS	RANDOM SEQUENCING		RAMP SEQUENCING	
	7.5 - 15 HP	20 - 40 HP	7.5 - 15 HP	20 - 40 HP
Double Trellis, Majestic, Spoke & Trellis, Trellis	A + A + A	B + B + B	D + D + D	G + G + G
Buckingham, Fleur de Lis, Tiara, Daffodil, Lily, Quad, Flare & Sky Geyser, Spoke & Sky Geyser, Trellis & Sky Geyser	B + B + B	B + B + B + B	D + D + F	G + G + H + H
Cascade, Geyser, Scepter, Sky Geyser	F + F + F	H + H + H	F + F + F	H + H + H + H

LED Lighting is only compatible with Random Sequencing. Incandescent & Halogen are available for both Random and Ramp Sequencing.

Colored Lenses for Copper and Saltwater Bronze Fixtures





CONTROL PANELS

STANDARD CONTROL PANEL BUILD 1HP TO 7.5HP*

- NEMA 3R Fiberglass Outdoor Enclosure
- Compact Size
- Stainless Steel Hardware
- Padlock Compatible
- Through-the-Door Safety Disconnect Switch with Lockout Capability
- Individual GFCI Protection for Motor & Lights
- Built Standard with 1 Light Circuit (multiple circuits available)
- Light & Pump circuits are interlocked
- 24-hour Pump & Light Timers
- Ground Connectors
- Wire Ways for neat & safe wiring
- Most components are Din Rail mounted for ease of service
- Easy to read Schematics
- Single Phase Panels include Capacitors, Start Circuit & resettable Overloads
- Standard Single Phase Panels are UL Listed
- Multi-Fountain Controls available in one Enclosure upon request
- Custom Control Panels available upon request
- CE Rated 50Hz Control Panels are available
- 3-Year Manufacturer's Warranty



**Standard Control Panel Build excludes the Titan Series*

CONTROL PANEL OPTIONS

WATER LEVEL CONTROLLER

Turns off the water feature pump to prevent motor damage caused by no-flow operation. Can be used to turn on an external water fill valve.

- *Single-Point-* When water levelor probe is no longer submerged, it prevents the pump from operating.
- *Two-Point-* Includes two water levelor probes. One probe, set at a higher point, turns on a valve once the water level falls below the probe. A second probe, set at a lower point, prevents the pump from operating once it is no longer submerged.



CONTROL PANELS

Cont.

WIND CONTROL

Used in conjunction with our Fountain Manager (shown), the externally mounted anemometer sends a signal back to the Control Panel indicating wind speed and reduces the spray height or prevents operation of the unit depending on settings and options.

Wind Control Options:

- *Single-Point Wind Control*- Prevents operation of the unit when the wind speed exceeds an adjustable preset limit. (Off Only)
- *Two-Point Wind Control*- In addition to preventing operation of the unit (see Single-Point), Two-Point Wind Control also allows the spray pattern height to be reduced to a preset point based on wind speed. (Off + Lower Height)
- *Inverse Wind Control*- As wind speed increases, spray pattern height decreases proportionately between two adjustable preset wind speeds. Unit operation is prevented when a higher preset level is exceeded.

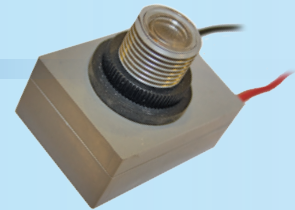


VARIABLE FREQUENCY DRIVE

Used in conjunction with a Fountain Manager to vary the speed of the motor & pump. In turn, creates variable height patterns and reduces the pattern height to prevent excessive wind blown spray. Can also be used to create three phase power when only single phase power is available.

PHOTO CELL

A photo cell allows the lights to turn on at dusk and off at dawn unless a light timer is set to shut the lights off sooner. A photo cell must be installed where natural light is present, not in the shade or under man-made lighting.



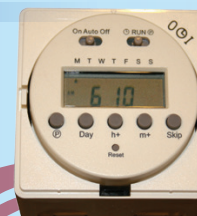
7 - DAY TIMER

Allows for different daily operation of the lights and the water feature. The ability to set different daily operating times allows the device to be a cost savings option for the water feature. Minimum two hour increment settings. A battery back-up system can be incorporated to ensure continued timer operation.



DIGITAL TIMER

Offers battery backup and allows for different daily operation of the lighting and water feature. Programmable to the minute.





BASIC EQUIPMENT DETAILS

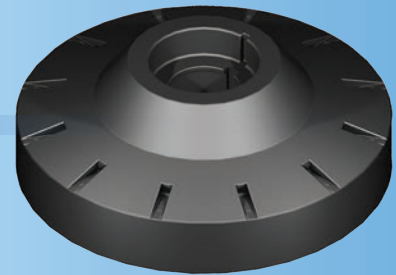
NOZZLES

Assemblies are made of a powder coated aircraft grade aluminum alloy base while nozzle tubes and spray plates are made with UV resistant PVC or bronze. These materials have all been carefully selected and engineered to maximize equipment life.



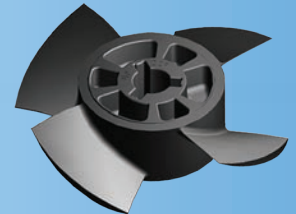
FLOATS

One-piece floats are molded of high strength polyethylene. They are impact, UV and chemical resistant. They are closed-cell, urethane foam filled and do not require assembly or water for balancing.



DISPLAY AERATOR PUMPS (SS2 & ENDUR)

Display Aerator Pumps (SS2 & Endur) are axial flow pumps using a propeller designed to pump large amounts of water at moderate pressure. These pumps are composed of high strength composite materials.



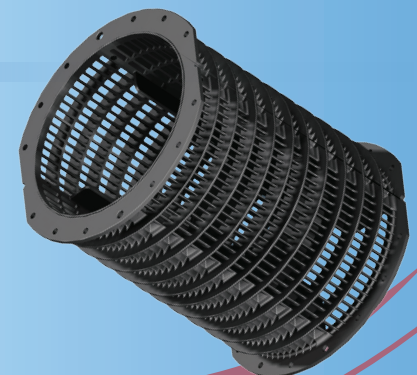
FOUNTAIN PUMPS (ENDUR & SS)

Fountain Pumps (Endur & Select Series) are centrifugal flow pumps using an impeller and diffuser designed to create high pressure at low flow rates. These pumps consist of machined bronze components.



SUCTION SCREENS

Suction Screens are made of high strength composite material and are non collapsible. Raised ridges are specifically engineered for durability and ease of cleaning. The openings are sized to prevent debris from damaging the pump and plugging nozzle tubes.



60Hz MOTOR CABLE CHART

SELECT SERIES, SELECT SERIES 2 & ENDUR SERIES
ANGEL, NIAGARA & NIAGARA 2 WATERFALL PUMPS
POND BOTTOM CIRCULATORS

60 Hz										
MOTOR					MAXIMUM COPPER CABLE					
Nominal		Service Factor			in feet per AWG					
HP	Volts	HP	Amps	KW	#16	#14	#12	#10	#8	#6
60 Hz - SINGLE PHASE - 3 WIRE										
1/2	120	0.8	12	1	50	100	160	250	390	620
1/2	230	0.8	6	1	190	400	650	1020	1610	2510
1	230	1.4	10	2	110	250	400	630	990	1540
60 Hz - SINGLE PHASE - 4 WIRE										
2	230	2.5	13	3	-	-	250	390	620	970
3	230	3.5	17	4	-	-	190	300	470	750
5	230	5.8	28	6	-	-	-	-	280	450
60 Hz - THREE PHASE - 4 WIRE										
1	208	1.4	5	2	150	430	690	1080	1710	2670
1	230	1.4	5	2	240	560	910	1430	2260	3520
1	460	1.4	3	2	1020	2300	3670	5770	9070	-
2	208	2.5	9	3	90	240	390	610	970	1520
2	230	2.5	9	3	150	320	510	810	1280	2010
2	460	2.5	5	3	575	1300	2070	3270	5150	8050
2	575	2.5	4	3	900	2030	3250	5110	8060	-
3	208	3.5	13	4	-	180	290	470	740	1160
3	230	3.5	12	4	-	240	390	620	990	1540
3	460	3.5	7	4	400	1000	1600	2520	3970	6200
3	575	3.5	5	4	675	1580	2530	3980	6270	-
5	208	5.8	21	6	-	-	170	280	440	690
5	230	5.8	20	6	-	-	230	370	590	920
5	460	5.8	11	6	-	590	950	1500	2360	3700
5	575	5.8	8	6	400	920	1480	2330	3680	5750
7.5	208	8.6	31	9	-	-	-	-	310	490
7.5	230	8.6	26	9	-	-	-	-	420	650
7.5	460	8.6	14	9	-	420	680	1070	1690	2640
7.5	575	8.6	11	9	-	660	1060	1680	2650	4150



60Hz MOTOR CABLE CHART

TITAN SERIES YOSEMITE WATERFALL PUMPS

60 Hz - SINGLE & THREE PHASE - 4 WIRE												
MOTOR					MAXIMUM COPPER CABLE							
Nominal			Service Factor		in feet per AWG							
HP	Volts	Phase	Amps	KW	#14	#12	#10	#8	#6	#4	#2	#1/0
7.5	230	1	42	8	-	-	-	-	310	490	750	1140
7.5	208	3	28	8	-	-	-	310	490	770	1180	1770
7.5	230	3	26	8	-	-	-	420	650	1020	1560	2340
7.5	460	3	13	8	420	680	1070	1690	2640	4100	6260	-
7.5	575	3	11	8	660	1060	1680	2650	4150	5500	8730	-
10	230	1	51	11	-	-	-	-	-	390	600	930
10	208	3	37	11	-	-	-	-	370	570	880	1330
10	230	3	34	11	-	-	-	310	490	760	1170	1760
10	460	3	17	11	-	500	790	1250	1960	3050	4680	7050
10	575	3	14	11	490	780	1240	1950	3060	4470	-	-
15	230	1	75	16	-	-	-	-	-	-	430	660
15	208	3	54	16	-	-	-	-	-	390	600	910
15	230	3	49	16	-	-	-	-	-	520	800	1200
15	460	3	25	16	-	-	540	850	1340	2090	3200	4810
15	575	3	20	16	-	530	850	1340	2090	3260	-	-
20	208	3	70	21	-	-	-	-	-	-	460	700
20	230	3	66	21	-	-	-	-	-	400	610	930
20	460	3	33	21	-	-	-	650	1030	1610	2470	3730
20	575	3	26	21	-	-	650	1030	1610	2520	3860	5830
25	208	3	87	26	-	-	-	-	-	-	-	570
25	230	3	82	26	-	-	-	-	-	-	500	750
25	460	3	41	26	-	-	-	-	830	1300	1990	3010
25	575	3	33	26	-	-	-	830	1300	2030	3110	4710
30	208	3	104	31	-	-	-	-	-	-	-	470
30	230	3	93	31	-	-	-	-	-	-	-	620
30	460	3	47	31	-	-	-	-	680	1070	1640	2490
30	575	3	37	31	-	-	-	-	1070	1670	2560	3880
40	460	3	64	42	-	-	-	-	-	-	1210	1830
40	575	3	51	42	-	-	-	-	-	1240	1900	2860

60 Hz LED LIGHTING CABLE CHART

35 WATT LED LIGHTING 85-265 VAC									
LIGHTS		WATTS	AMPS	3 WIRE LIGHT CABLE		4 WIRE LIGHT CABLE		3 WIRE / 2-WAY CONNECTOR	
Total #	Light Set Description	Total	Total	Used with 1 set of lights per cable		Used with 2 sets of lights per cable & sequencing		Used with 2 sets of lights per cable without sequencing	
				in feet per AWG		in feet per AWG		in feet per AWG	
				#16/3	#14/3	#16/4	#14/4	#16/3	#14/3
2	2 lights x 35W	70	0.6	1000	1600	-	-	-	-
3	3 lights x 35 W	105	0.9	675	1050	-	-	-	-
4	4 lights x 35 W	140	1.2	500	800	-	-	-	-
2	1 light x 35 W	70	0.6	-	-	4000	6400	1000	1600
4	2 lights x 35 W	140	1.2	-	-	2000	3200	500	800
6	3 lights x 35 W	210	1.8	-	-	1350	2100	325	525
8	4 lights x 35 W	280	2.4	-	-	1000	1600	250	400



2HP Lily Display Aerators
Front: 3x35W LED Light Set Back: 3x300W Incandescent Light Set



60 Hz LIGHTING CABLE CHART

300 WATT - 120 VAC LIGHTING WITHOUT SEQUENCING													
LIGHTS		WATTS	AMPS	3 WIRE LIGHT CABLE					4 WIRE LIGHT CABLE				
Total #	Light Set Description	Total	Total	Used with 1 set of lights per cable					Used with 2 sets of lights per cable				
				in feet per AWG					in feet per AWG				
				#14/3	#12/3	#10/3	#8/3	#6/3	#14/4	#12/4	#10/4	#8/4	#6/4
2	2 lights x 300 W	600	5	200	300	500	800	1300	-	-	-	-	-
3	3 lights x 300 W	900	7	125	230	360	580	850	-	-	-	-	-
4	4 lights x 300 W	1200	10	100	160	250	400	640	-	-	-	-	-
4	2 lights x 300W	1200	10	-	-	-	-	-	425	640	1000	1600	2500
6	3 lights x 300 W	1800	15	-	-	-	-	-	275	450	720	1060	1700
8	4 lights x 300 W	2400	20	-	-	-	-	-	200	300	500	800	1300
300 WATT - 120 VAC LIGHTING WITH SEQUENCING													
1	1 light x 300 W	300	3	425	640	1000	1600	2500	-	-	-	-	-
2	2 lights x 300 W	600	5	200	300	500	800	1300	-	-	-	-	-
3	3 lights x 300 W	900	7	125	230	230	580	850	-	-	-	-	-
4	4 lights x 300 W	1200	10	100	160	160	400	640	-	-	-	-	-
2	1 light x 300 W	600	5	-	-	-	-	-	425	640	1000	1600	2500
4	2 lights x 300 W	1200	10	-	-	-	-	-	200	300	500	800	1300
6	3 lights x 300 W	1800	15	-	-	-	-	-	125	230	360	580	850
8	4 lights x 300 W	2400	20	-	-	-	-	-	100	160	250	400	640
500 WATT - 120 VAC LIGHTING WITHOUT SEQUENCING													
2	2 lights x 500 W	1000	8	125	200	300	500	750	-	-	-	-	-
3	3 lights x 500 W	1500	13	75	120	200	300	500	-	-	-	-	-
4	4 lights x 500 W	2000	17	50	100	150	240	380	-	-	-	-	-
4	2 lights x 500 W	2000	17	-	-	-	-	-	250	400	600	1000	1500
6	3 lights x 500 W	3000	25	-	-	-	-	-	175	210	400	600	1000
8	4 lights x 500 W	4000	33	-	-	-	-	-	125	200	300	500	750
500 WATT - 120 VAC LIGHTING WITH SEQUENCING													
1	1 light x 500 W	500	4	250	400	600	1000	1500	-	-	-	-	-
2	2 lights x 500 W	1000	8	125	200	300	500	750	-	-	-	-	-
3	3 lights x 500 W	1500	13	75	120	200	300	500	-	-	-	-	-
4	4 lights x 500 W	2000	17	50	100	150	240	380	-	-	-	-	-
2	1 light x 500 W	1000	8	-	-	-	-	-	250	400	600	1000	1500
4	2 lights x 500 W	2000	17	-	-	-	-	-	125	200	300	500	750
6	3 lights x 500 W	3000	25	-	-	-	-	-	75	120	200	300	500
8	4 lights x 500 W	4000	33	-	-	-	-	-	50	100	150	240	380

50 Hz MOTOR CABLE CHART

SELECT SERIES & SELECT SERIES 2
ANGEL, NIAGARA & NIAGARA 2 WATERFALL PUMPS
POND BOTTOM CIRCULATORS

50Hz								
MOTOR Full Load				MAXIMUM COPPER CABLE				
				in meter per sq mm / (ft per AWG)				
HP	Volts	Amps	KW	2.5 (#14)	4 (#12)	6 (#10)	10 (#8)	16 (#6)
50Hz - SINGLE PHASE - 3 Wire								
1/2	230	4	.37	210 (580)	330 (940)	500 (1500)	280 (2310)	999 (3600)
1	230	6	.75	110 (310)	180 (500)	270 (800)	440 (1240)	690 (1940)
50Hz - SINGLE PHASE - 4 Wire								
1/2	230	4	.37	210 (580)	330 (940)	500 (1500)	820 (2310)	1290 (3600)
1	230	6	.75	110 (310)	180 (500)	270 (800)	440 (1240)	690 (1940)
2	230	11	1.5	60 (170)	100 (280)	150 (450)	250 (710)	400 (1120)
3	230	15	2.2	40 (110)	60 (190)	100 (300)	170 (470)	270 (750)
5	230	22	3.7	-	40 (N/A)	60 (N/A)	110 (300)	170 (480)
50Hz - THREE PHASE - 4 Wire								
1	400	3	.75	820 (2260)	1300 (3640)	1950 (5780)	3200 (8920)	5020 (9990)
2	400	5	1.5	430 (1210)	700 (1940)	1040 (3090)	1720 (4790)	2700 (7500)
3	400	6	2.2	290 (800)	460 (1300)	700 (2060)	1150 (3210)	1800 (5000)
5	400	10	3.7	170 (470)	270 (770)	410 (1220)	680 (1910)	1080 (3000)
7.5	400	13	5.5	110 (320)	190 (520)	280 (840)	470 (1310)	740 (2060)

TITAN SERIES YOSEMITE WATERFALL PUMPS

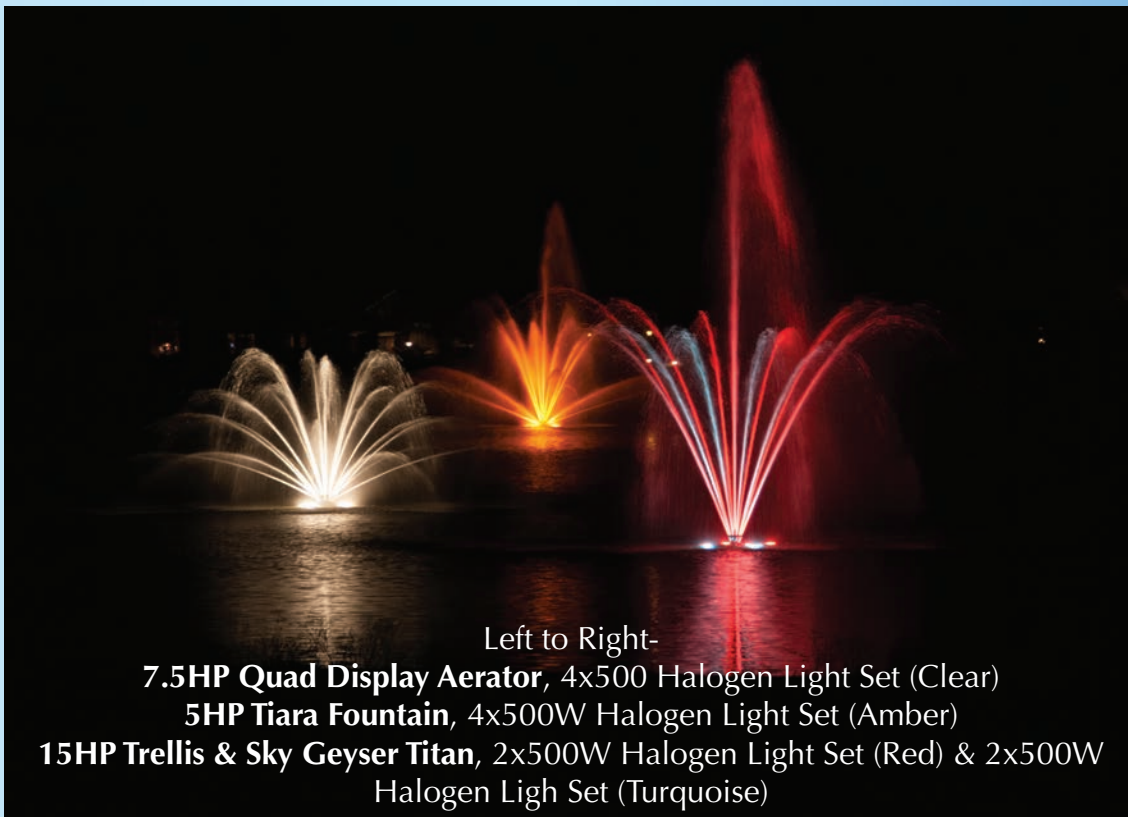
50Hz - THREE PHASE - 4 WIRE								
MOTOR Full Load				MAXIMUM COPPER CABLE				
				in meters per sq mm / (ft per AWG)				
HP	Volts	Amps	KW	2.5 (#14)	4 (#12)	6 (#10)	10 (#8)	16 (#6)
7.5	400	13	5.5	110 (320)	190 (520)	280 (840)	470 (1310)	740 (2060)
10	400	17	7.5	80 (N/A)	130 (370)	200 (600)	330 (930)	530 (1470)
15	400	24	11	60 (N/A)	90 (N/A)	140 (430)	240 (680)	380 (1070)
20	400	32	15	-	70 (N/A)	110 (N/A)	180 (520)	290 (820)
25	400	40	18.5	-	-	80 (N/A)	140 (N/A)	230 (640)
30	400	47	22	-	-	-	120 (N/A)	190 (N/A)
40	400	64	30	-	-	-	-	140 (N/A)



50 Hz LED LIGHTING CABLE CHART

35 WATT LED LIGHTING 85-265 VAC

LIGHTS		WATTS	AMPS	3 WIRE LIGHT CABLE		4 WIRE LIGHT CABLE		3 WIRE / 2-WAY CONNECTOR	
Total #	Light Set Description	Total	Total	Used with 1 set of lights per cable		Used with 2 sets of lights per cable & sequencing		Used with 2 sets of lights per cable without sequencing	
				in meters per sq. mm/ (ft. per AWG)		in meters per sq. mm/ (ft. per AWG)		in meters per sq. mm/(ft. per AWG)	
				1.5 (#16)	2.5 (#14)	1.5 (#16)	2.5 (#14)	1.5 (#16)	2.5 (#14)
2	2 lights x 35W	70	0.3	1097 (3600)	1768 (5800)	-	-	-	-
3	3 lights x 35 W	105	0.5	730 (2400)	1158 (3800)	-	-	-	-
4	4 lights x 35 W	140	0.6	548 (1800)	884 (2900)	-	-	-	-
2	1 light x 35 W	70	0.3	-	-	3960 (13000)	6400 (21000)	1097 (3600)	1768 (5800)
4	2 lights x 35 W	140	0.6	-	-	2010 (6600)	3040 (10000)	548 (1800)	884 (2900)
6	3 lights x 35 W	210	1	-	-	1340 (4400)	2130 (7000)	335 (1100)	533 (1750)
8	4 lights x 35 W	280	1.3	-	-	1000 (3300)	1610 (5300)	259 (850)	411 (1350)



Left to Right-
7.5HP Quad Display Aerator, 4x500 Halogen Light Set (Clear)
5HP Tiara Fountain, 4x500W Halogen Light Set (Amber)
15HP Trellis & Sky Geyser Titan, 2x500W Halogen Light Set (Red) & 2x500W Halogen Light Set (Turquoise)

50 Hz LIGHTING CABLE CHART

50Hz - 300W 220 VAC LIGHTING WITHOUT SEQUENCING										
LIGHTS		WATTS	AMPS	3 WIRE LIGHT CABLE						
Total #	Light Set Description	Total	Total	Used for 1 set of lights per cable						
				in meters per sq. mm/(ft. per AWG)						
				2.5 (#14)	4 (#12)	6 (#10)	10 (#8)			
2	2 lights x 300W	600	3	220 (725)	300 (1000)	475 (1625)	775 (2575)			
3	3 lights x 300W	900	4	170 (550)	200 (675)	325 (1075)	520 (1725)			
4	4 lights x 300W	1200	6	100 (350)	150 (500)	240 (800)	390 (1300)			

50Hz - 300W 220 VAC LIGHTING WITHOUT SEQUENCING										
LIGHTS		WATTS	AMPS	4 WIRE LIGHT CABLE						
Total #	Light Set Description	Total	Total	Used for 2 sets of lights per cable						
				in meters per sq. mm/(ft. per AWG)						
				2.5 (#14)	4 (#12)	6 (#10)	10 (#8)			
4	2 lights x 300W	1200	6	440 (1450)	600 (2025)	975 (3250)	1550 (5175)			
6	3 lights x 300W	1800	8	335 (1100)	405 (1350)	655 (2175)	1035 (3450)			
8	4 lights x 300W	2400	11	210 (700)	300 (1000)	475 (1625)	775 (2575)			

50Hz - 300W 220 VAC LIGHTING WITH SEQUENCING - 3 WIRE										
LIGHTS				WATTS		AMPS	3 WIRE LIGHT CABLE			
Total #	Light Set Description	Set	Lights / Set	Watts / Set	Total	Total	Used for 1 set of lights per cable			
							in meters per sq. mm/(ft. per AWG)			
							2.5 (#14)	4 (#12)	6 (#10)	10 (#8)
1	1 light x 300W	1	1	300	300	2	335 (1100)	600 (2025)	975 (3250)	1550 (5175)
2	2 lights x 300W	1	2	600	600	3	220 (725)	300 (1000)	475 (1625)	775 (2575)
3	3 lights x 300W	1	3	900	900	4	170 (550)	200 (675)	325 (1075)	520 (1725)
4	4 lights x 300W	1	4	1200	1200	6	100 (350)	150 (500)	240 (800)	390 (1300)

50Hz - 300W 220 VAC LIGHTING WITH SEQUENCING - 4 WIRE										
LIGHTS				WATTS		AMPS	4 WIRE LIGHT CABLE			
Total #	Light Set Description	Set	Lights / Set	Watts / Set	Total	Total	Used for 2 sets of lights per cable			
							in meters per sq. mm/(ft. per AWG)			
							2.5 (#14)	4 (#12)	6 (#10)	10 (#8)
2	1 light x 300W	2	1	300	600	3	335 (1100)	600 (2025)	975 (3250)	1550 (5175)
4	2 lights x 300W	2	2	600	1200	6	220 (725)	300 (1000)	475 (1625)	775 (2575)
6	3 lights x 300W	2	3	900	1800	8	170 (550)	200 (675)	325 (1075)	520 (1725)
8	4 lights x 300W	2	4	1200	2400	11	100 (350)	150 (500)	240 (800)	390 (1300)



JOBSITE CHECKLIST

There are several basic but essential functions that must be performed before a water feature can be ordered. Below is a checklist of functions that must be considered.

1. **Determine and verify the voltage and phase of the power source.**
2. When 460 is the voltage, verify if 120V is available at site. If 120V is not available an internal power transformer is necessary to operate the unit. If lights will be operating then an external lighting power transformer is necessary to operate the unit and lights. (Transformers available through ACI)
3. How deep is the pond? See specification charts for the unit type and spray pattern for pond depth requirements based on horsepower to select a vertical or horizontal configuration.
4. Verify the water type. Is the water body freshwater, saltwater, brackish water or sewage water? This will determine the grade of unit needed.
5. Is the horsepower and spray pattern selection adequate for the pond?
6. Will normal, prevailing wind cause overspray problems? If so, consider ACI wind control options.
7. What is the distance between the control panel and unit location? See motor cable charts for sizing specifications. Motor cable lengths over 200' may cause GFCI nuisance tripping in single phase units.
8. Is the circuit breaker in the electrical breaker box at site and the cable size from the electrical breaker box to the ACI control panel sized correctly? Consult your local electrical contractor.
9. Are anchoring rope, mooring rope or mooring augers needed?
10. Is lighting desired to enhance the beauty of your water feature at night? See pages 72 - 75 for a variety of lighting options offered by ACI.
11. Does the pond have an algae or aquatic weed problem? If so, consider alleviating this problem first.

Power Source				Water Depth			Water Type			
Transformer For 460 V / 575 V				Spray Pattern						
Configuration	Horizontal				Vertical					
Motor Size	Horse Power			Voltage			Phase			
Cable	Length				Gauge					
Pump										
Light										
Mooring Options	Mooring Rope		Anchor Rope		Length		15" Auger minimum 2		30" Auger minimum 2	
Light Options	Copper Spun	Stainless Steel	Composite	LED	Flood / Spot	Wattage	Sequence			
Lens Color Options	Clear		Amber		Blue		Green		Red	Turquoise



NOTES

A large rectangular area with a light beige background, containing numerous horizontal blue lines for writing notes.



6A Wolfer Industrial Drive
Spring Valley, IL 61362
USA

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800-377-0019

www.aquacontrol.com

info@aquacontrol.com