

SPECIFICATIONS MANUAL

Aqua Control



WATER FEATURES™

AQUA CONTROL, INC.

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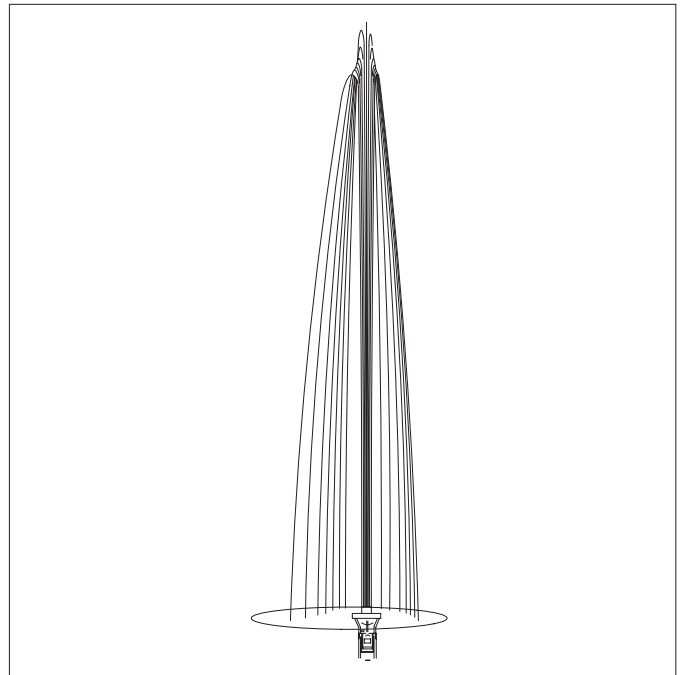
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TITAN FOUNTAIN SYSTEM REQUIREMENTS - CASCADE

The Fountain must be a Cascade that must produce a very thick, medium high stream that will originate from the water level. The Cascade nozzle is not interchangeable with any other Aqua Control Fountain spray pattern of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Cascade

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE	THREE PHASE			
					208V/230V	208V	230V	460V	575V
7.5	25	8	1200	44	46/42	28	26	13	11
10	30	10	1350	44	56/51	37	34	17	14
15	40	12	1500	44	83/75	54	49	25	20
20	50	17	1750	44	-	70	66	33	26
25	60	20	1850	44	-	87	82	41	33
30	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps.

The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

This will be an Aqua Control Fountain produced by Aqua Control, Inc., 6A Wolfer Industrial Drive, Spring Valley, IL 61362
Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - DAFFODIL

The Fountain must be a Daffodil that must have a 2 tier pattern which will consist of a wide and low fan pattern. The Daffodil will also consist of a thick, high, center stream. The Daffodil nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Daffodil

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE	THREE PHASE			
					208V/230V	208V	230V	460V	575V
7.5	30	50	500	37	46/42	28	26	13	11
10	35	60	550	37	56/51	37	34	17	14
15	40	75	850	44	83/75	54	49	25	20
20	45	80	850	44	-	70	66	33	26

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

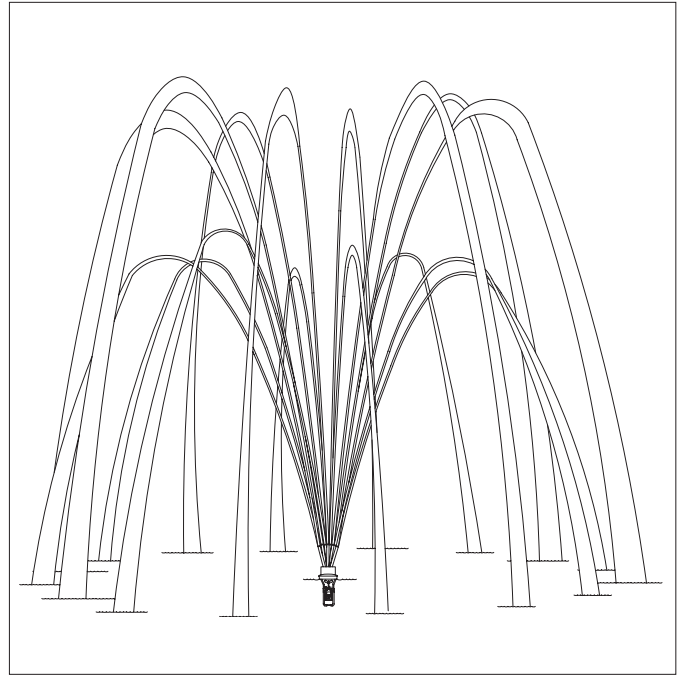
This will be an Aqua Control Fountain produced by Aqua Control, Inc., 6A Wolfer Industrial Drive, Spring Valley, IL 61362
Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - DOUBLE TRELLIS

The Fountain must be a Double Trellis Fountain that must have a 2 tier pattern. The Double Trellis Fountain must provide: 8 high, arching streams; 8 similar, lower, arching streams. The Double Trellis nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Double Trellis

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	30	33	400	37	46/42	28	26	13	11
10	32	35	500	37	56/51	37	34	17	14
15	35	40	600	44	83/75	54	49	25	20
20	40	45	700	44	-	70	66	33	26

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps.

The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

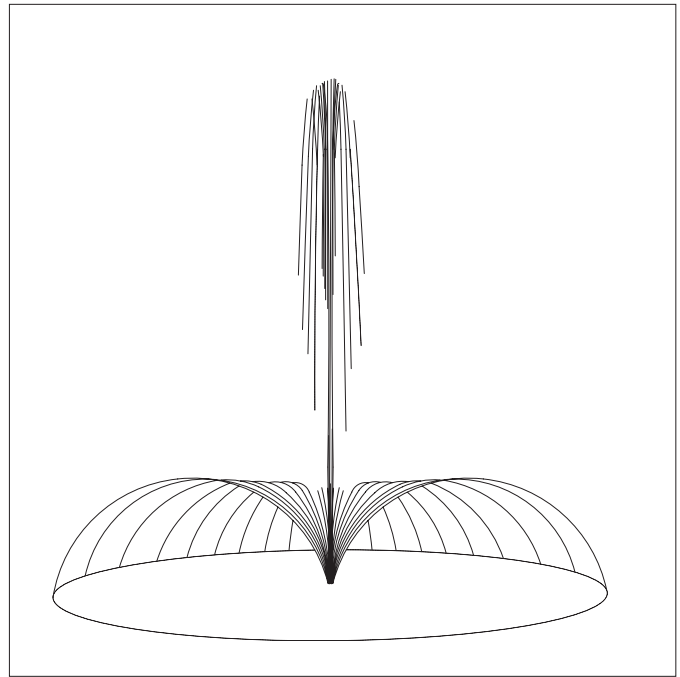
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - FLARE & SKY GEYSER

The Fountain must be a Flare & Sky Geysier that must have 2 tiers that will produce a high skyward geysier and a large, lower, conical fan. The Flare & Sky Geysier nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Flare & Sky Geysier

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE	THREE PHASE			
					208V/230V	208V	230V	460V	575V
7.5	37	19	400	37	46/42	28	26	13	11
10	42	21	500	37	56/51	37	34	17	14
15	49	25	600	44	83/75	54	49	25	20
20	55	28	700	44	-	70	66	33	26

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

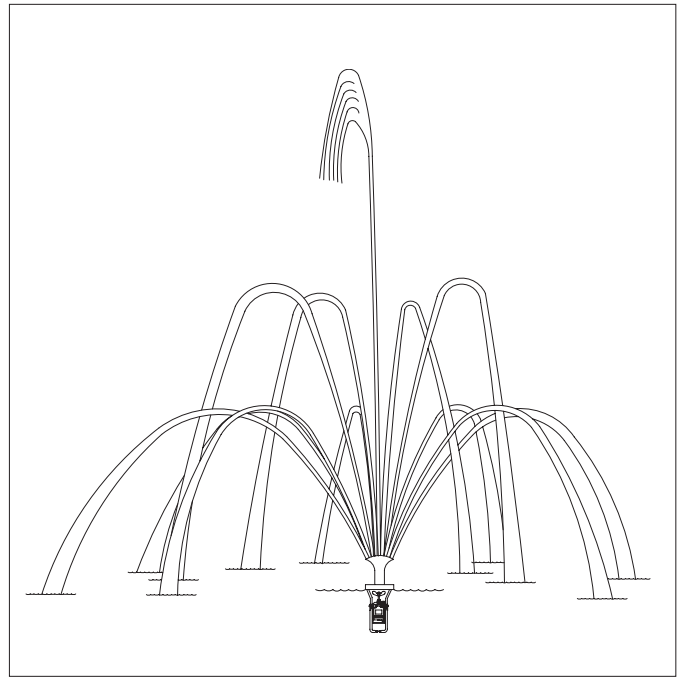
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - FLEUR DE LIS

The Fountain must be a Fleur de Lis Fountain that must be a 3 tier pattern with a vertical stream surrounded by 2 lower tiers of 8 arching streams. The Fleur de Lis nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Fleur de Lis

60 Hz										
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS					
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE				
						208V	230V	460V	575V	
7.5	40	40	400	37	46/42	28	26	13	11	
10	45	45	500	37	56/51	37	34	17	14	
15	50	50	600	44	83/75	55	48	24	19	
20	55	55	700	44	-	70	61	31	25	
25	60	60	800	44	-	87	82	41	33	
30	65	65	900	57	-	104	93	47	37	
40	75	75	1000	57	-			64	51	

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

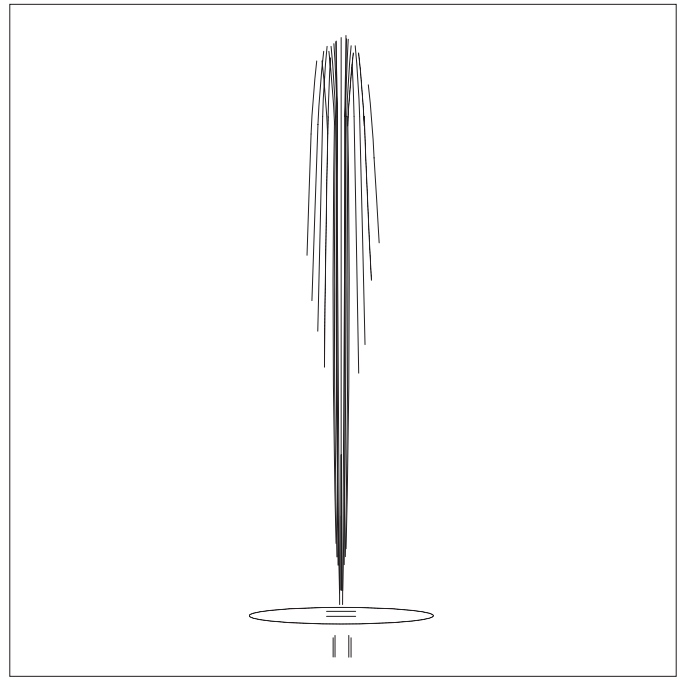
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - GEYSER

The Fountain must be a Geyser with multiple streams that intermingle and produce a single, tall, and constantly undulating pattern. The geyser nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Geyser

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	40	4	400	37	46/42	28	26	13	11
10	45	4	500	37	56/51	37	34	17	14
15	50	5	600	44	83/75	54	49	25	20
20	50	6	700	44	-	70	66	33	26
25	60	6	800	44	-	87	82	41	33
30	70	7	900	57	-	104	93	47	37
40	80	8	1000	57	-	-	-	64	51

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps.

The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

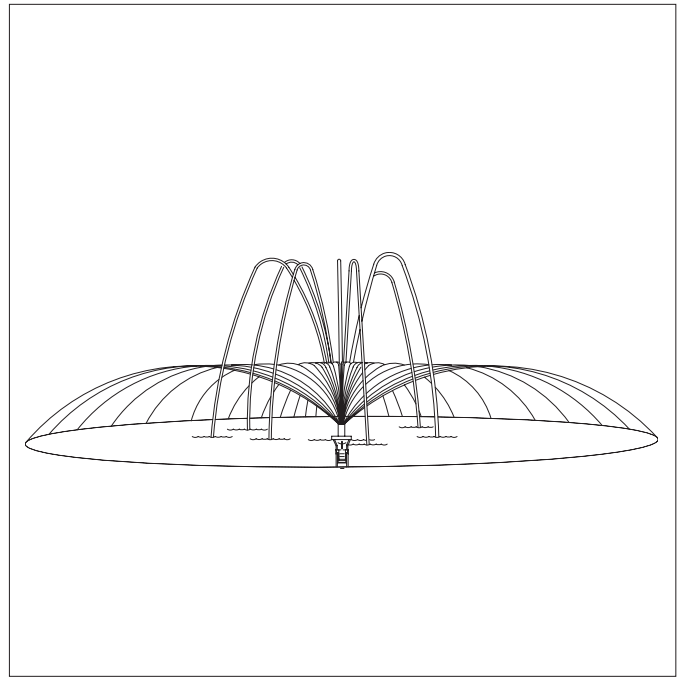
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - LILY

The Fountain must be a Lily that must have a 2 tier pattern which will consist of a wide and low fan, and 7 thick, high coherent arching streams. The Lily nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Lily

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	25	50	500	37	46/42	28	26	13	11
10	27	55	650	37	56/51	37	34	17	14
15	30	60	800	44	83/75	54	49	25	20
20	35	70	900	44	-	70	66	33	26
25	40	80	1000	44	-	87	82	41	33
30	45	90	1100	57	-	104	93	47	37

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

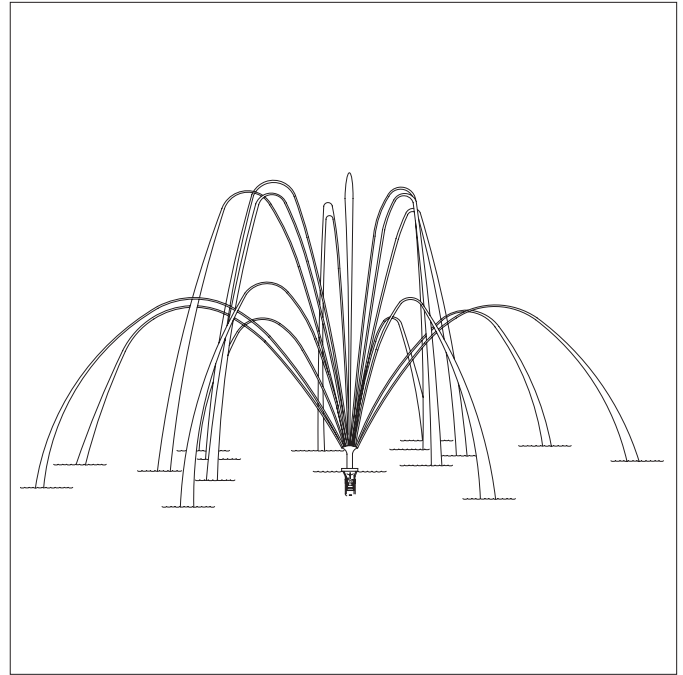
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - MAJESTIC

The Fountain must be a Majestic Fountain that must have a 2 tier pattern. The 2 tier patterns must consist of 8 high, arching streams and 8 medium arching streams. The Majestic nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Majestic

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE	THREE PHASE			
					208V/230V	208V	230V	460V	575V
7.5	30	60	400	37	46/42	28	26	13	11
10	32	64	500	37	56/51	37	34	17	14
15	35	70	600	44	83/75	54	49	25	20
20	40	80	700	44	-	70	66	33	26

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

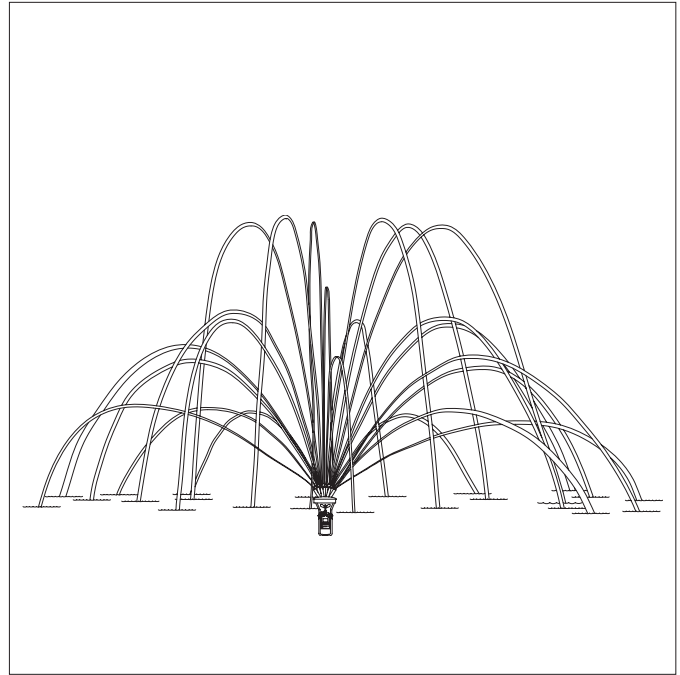
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - QUAD

The Fountain must be a Quad that must have a 4 tier pattern with each tier having 6 arching streams, a total of 24. The Quad nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Quad

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	30	80	400	37	46/42	28	26	13	11
10	32	86	500	37	56/51	37	34	17	14
15	35	94	600	44	83/75	54	49	25	20
20	37	100	700	44	-	70	66	33	26

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

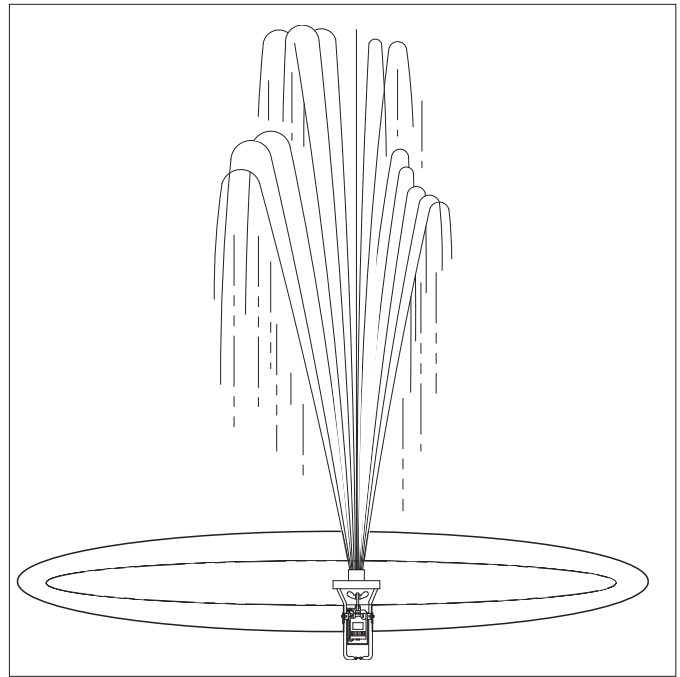
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - SCEPTER

The Fountain must be an Scepter that must produce 8 very heavy and high arching streams. The Scepter nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Scepter

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	25	17	500	37	46/42	28	26	13	11
10	30	20	600	37	56/51	37	34	17	14
15	35	23	800	44	83/75	54	49	25	20
20	40	26	900	44	-	70	66	33	26
25	50	33	1000	44	-	87	82	41	33
30	60	40	1100	57	-	104	93	47	37
40	70	46	1200	57	-	-	-	64	51

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

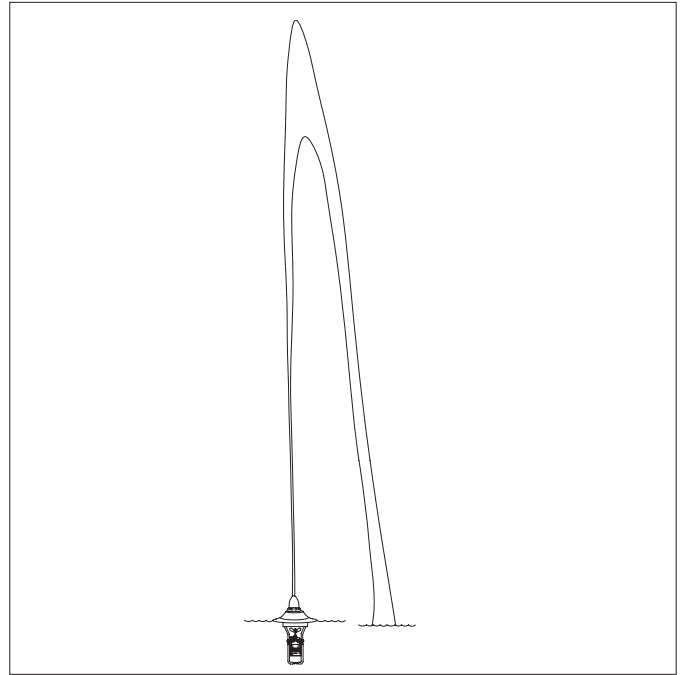
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - SKY GEYSER

The Fountain must be a Sky Geyser Fountain that must create a single narrow and coherent stream that will achieve maximum height. The Sky Geyser nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Sky Geyser

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	40	4	400	37	46/42	28	26	13	11
10	50	5	450	37	56/51	37	34	17	14
15	60	6	550	44	83/75	54	49	25	20
20	70	7	700	44	-	70	66	33	26
25	80	8	750	44	-	87	82	41	33
30	90	9	800	57	-	104	93	47	37
40	100	10	1000	57	-	-	-	64	51

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

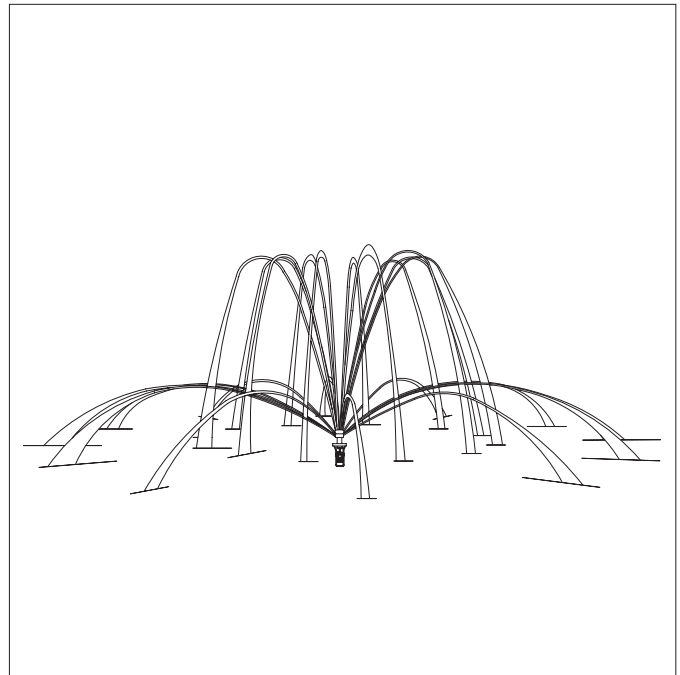
This will be an Aqua Control Fountain produced by Aqua Control, Inc., 6A Wolfer Industrial Drive, Spring Valley, IL 61362
Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - SPOKE & TRELLIS

The Fountain must be a Spoke & Trellis Fountain that must have a 12 stream, moderately high, arching Trellis pattern, that must be surrounded by a 12 stream, low, wide spoke pattern. The Spoke and Trellis nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Spoke & Trellis

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	26	80	500	37	46/42	28	26	13	11
10	28	85	650	37	56/51	37	34	17	14
15	30	90	800	44	83/75	54	49	25	20
20	35	110	850	44	-	70	66	33	26
25	40	120	900	44	-	87	82	41	33

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

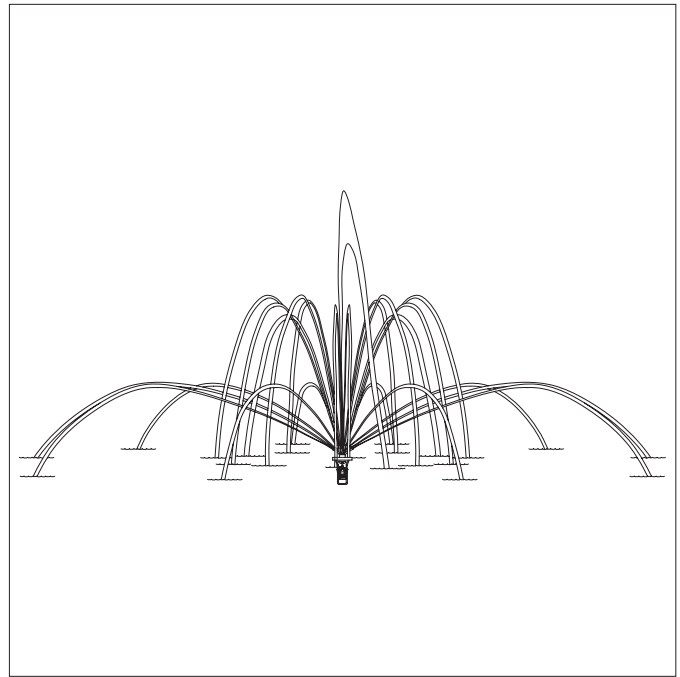
This will be an Aqua Control Fountain produced by Aqua Control, Inc., 6A Wolfer Industrial Drive, Spring Valley, IL 61362
Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - TIARA

The Fountain must be a Tiara Fountain that must have 3 tiers with a vertical stream surrounded by 2 lower tiers of 12 arching streams. The Tiara nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Tiara

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	36	100	400	37	46/42	28	26	13	11
10	40	110	500	37	56/51	37	34	17	14
15	45	120	600	44	83/75	54	49	25	20
20	55	130	800	44	-	70	66	33	26
25	60	140	900	44	-	87	82	41	33
30	70	150	1100	57	-	104	93	47	37

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

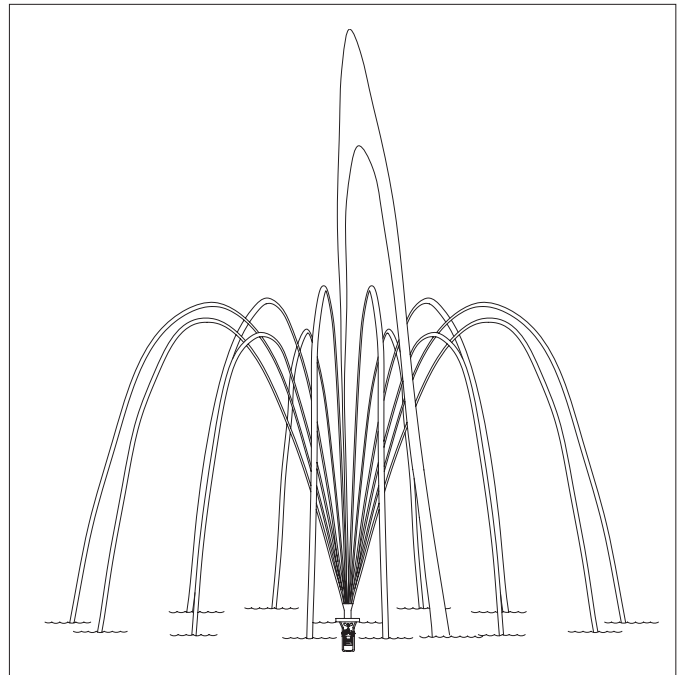
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - TRELLIS & SKY GEYSER

The Fountain must be a Trellis and Sky Geysier Fountain that must have a single, narrow, coherent stream that must be surrounded by 12 arching, moderate-height streams which will be 2/3 height. The Trellis and Sky Geysier nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Trellis & Sky Geysier

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	35	22	400	37	46/42	28	26	13	11
10	40	27	500	37	56/51	37	34	17	14
15	45	30	600	44	83/75	54	49	25	20
20	50	33	700	44	-	70	66	33	26
25	55	37	800	44	-	87	82	41	33
30	60	40	1000	57	-	104	93	47	37
40	70	47	1200	57	-	-	-	64	51

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

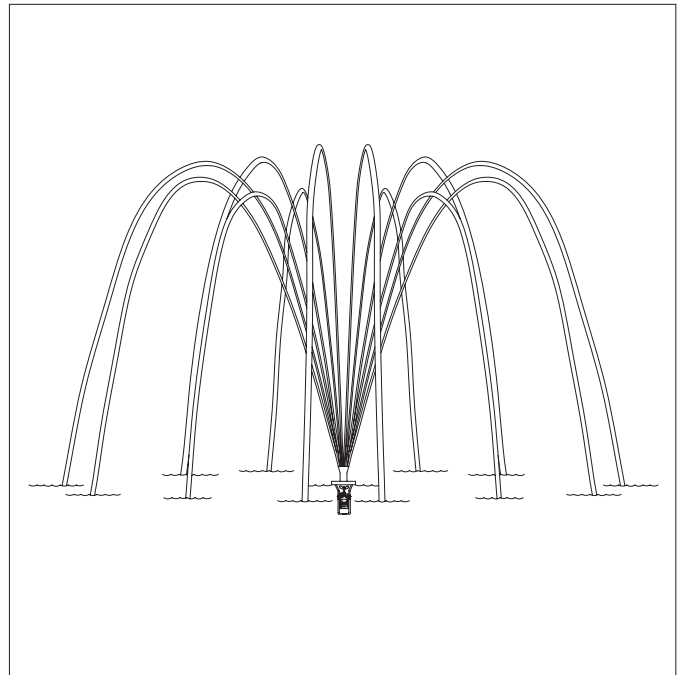
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Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

TITAN FOUNTAIN SYSTEM REQUIREMENTS - TRELLIS

The Fountain must be a Trellis Fountain that must have 12, high, arching, coherent streams. The Trellis nozzle must be interchangeable with all other Aqua Control Fountain spray patterns of the same horsepower.

SPRAY PATTERN SPECIFICATIONS

Dimensions for water display must be: For _____ HP, performance height must be _____ feet. Diameter must be _____ feet. The pumping rate must be _____ GPM.



Aqua Control Titan Series Fountain - Trellis

60 Hz									
HP	PERFORMANCE			DEPTH MIN. WATER DEPTH	AMPS				
	HT. (Feet)	DIA. (Feet)	GPM		SINGLE PHASE 208V/230V	THREE PHASE			
						208V	230V	460V	575V
7.5	28	58	500	37	46/42	28	26	13	11
10	30	60	650	37	56/51	37	34	17	14
15	32	64	800	44	83/75	54	49	25	20
20	34	68	850	44	-	70	66	33	26
25	36	72	900	44	-	87	82	41	33
30	40	80	1100	57	-	104	93	47	37
40	50	100	1200	57	-	-	-	64	51

SPRAY NOZZLE ASSEMBLY

The nozzle must attach to the head which attaches to the discharge tube. The head supports the Fountain assembly on the float. The discharge tube assembly shall be made from 6" engineered plastic tubing for toughness and corrosion resistance. The 6" size closely matches the pump discharge to reduce pressure losses from transitions.

FLOAT

The float must be one piece and molded of high strength, impact, UV and chemical resistant, polyethylene. The float color must be black for minimum visibility in water. Stainless steel inserts must be molded into the float for light attachment and for mooring eyebolts. The float must have molded hand holds for easy handling. The float must be designed for maximum stability and for easy height adjustability to achieve minimum visibility with as little as 1/2" of a 15" diameter portion of the float visible during operation. The float must be filled with closed cell urethane foam.

MOTOR SPECIFICATIONS

The Fountain must have a _____ HP _____ phase motor using _____ volts and drawing _____ amps. The motor must be an industry standard submersible motor with mechanical seals and heavy duty bearings designed to operate under water. All external components must be stainless steel & corrosion resistant.

MOTOR WIRING

Motor must be 3 wire plus a ground.

PUMP ASSEMBLY

The Fountain must have a high efficiency turbine pump consisting of a bronze impeller and ceramic lined passages for a maximum flow rate. The pump must also have a low pressure loss inlet to prevent cavitation at high flow rates.

INTAKE SUCTION SCREEN

The system must have a non collapsible, type 304 stainless steel intake suction screen. It must have 1/2" openings so that any particle that can enter into the screen can pass thru the pump. The screen must have no less than 1.57 square feet of suction area of which 50% is available for water intake.

UNDERWATER POWER CONNECTION

For all units that draw less than 32 amps the electrical connector system for the pump motor must form a watertight connection between the motor lead plug and the pump cord socket. The connector must be UL/cUL/CE rated at 600 volts and 32 amps for continuous submersion to a depth of 33 feet. It must be available with 4 pins for connection to 3 wire motors plus a ground. The plug shall be epoxy potted to the motor lead and the socket to the pump cord to create a permanent and watertight connection to those wires. This connector system shall allow for a fast and highly reliable system for disconnecting the Fountain for service or storage. In addition, both the plug and socket shall have waterproof caps which will allow either to remain dry when submerged while disconnected.

UNDERWATER POWER CORD

The Power Cord must be UL listed for continuous submergence. It must be THHN/THWN heavy duty flat stranded, double insulated PVC jacketed, copper cord. One wire in each cord must always act as a ground for proper system grounding.

The Motor Power Cord will be _____ gauge and _____ feet in length.

The Lighting Power Cord will be _____ gauge, _____ wires, and _____ feet in length.

CONTROL PANELS

All control panels are UL Listed except 25 HP, 208V, 3-phase; all 30 HP; 460V and 575V.

Control panels are contained within lockable 3R painted steel enclosures rated for outdoor installation.

All control panels must include a factory installed externally operated disconnect switch, circuit breaker, Class A (human rated) Ground Fault Circuit Interrupter (GFCI)/ on-off switch, 24 hour timer, contactor, and output terminals.

Three phase control panels must have a SubMonitor. SubMonitors are standard in 3-phase control panels to protect the motor from the effects of overheating, phase loss, high amp draw, and voltage fluctuations.

There is no standard that requires a GFCI for 460V power and there is no assurance that a GFCI circuit will provide protection from electrocution. However, in 460V control panels, ACI provides the same GFCI that is Class A rated with used with 230V panels.

FASTENERS

All fasteners must be stainless steel.

WARRANTY

The entire system comes with a 3-year warranty except for light bulbs and lenses (Light bulbs and lenses have a 30-day warranty)

PRODUCER

This will be an Aqua Control Fountain produced by Aqua Control, Inc., 6A Wolfer Industrial Drive, Spring Valley, IL 61362
Phone: 800.377.0019, 815.664.4900, Fax: 815.664.4901.

MOTOR CORD SIZING TABLE

60 Hz - SINGLE & THREE PHASE													
MOTOR					MAXIMUM COPPER CORD								
Nominal			Service Factor		feet per US wire gauge								
HP	Volts	Phase	Amps	KW	#14	#12	#10	#8	#6	#4	#2	#1/0	
7.5	230	1	26	8.8	-	-	-	-	310	490	750	1140	
7.5	208	3	28	8.0	-	-	200	310	490	770	1180	1770	
7.5	230	3	26	8.0	-	-	260	420	650	1020	1560	2340	
7.5	460	3	13	8.0	420	680	1070	1690	2640	4100	6260	-	
7.5	575	3	11	8.0	660	1060	1680	2650	4150	5500	8730	-	
10	230	1	34	11.3	-	-	-	-	-	390	600	930	
10	208	3	37	10.8	-	-	-	-	370	570	880	1330	
10	230	3	34	10.8	-	-	-	310	490	760	1170	1760	
10	460	3	17	10.8	310	500	790	1250	1960	3050	4680	7050	
10	575	3	14	10.8	490	780	1240	1950	3060	4470	-	-	
15	230	1	49	16.2	-	-	-	-	-	-	430	660	
15	208	3	55	15.8	-	-	-	-	-	390	600	910	
15	230	3	49	15.8	-	-	-	-	330	520	800	1200	
15	460	3	25	15.8	-	-	540	850	1340	2090	3200	4810	
15	575	3	20	15.8	-	530	850	1340	2090	3260	-	-	
20	208	3	70	20.9	-	-	-	-	-	-	460	700	
20	230	3	66	20.9	-	-	-	-	-	400	610	930	
20	460	3	33	20.9	-	-	-	650	1030	1610	2470	3730	
20	575	3	26	20.9	-	-	650	1030	1610	2520	3860	5830	
25	208	3	87	25.7	-	-	-	-	-	-	-	570	
25	230	3	82	25.7	-	-	-	-	-	-	500	750	
25	460	3	41	25.7	-	-	-	-	830	1300	1990	3010	
25	575	3	33	25.7	-	-	-	830	1300	2030	3110	4710	
30	208	3	104	31.1	-	-	-	-	-	-	-	470	
30	230	3	93	31.1	-	-	-	-	-	-	-	620	
30	460	3	47	31.1	-	-	-	-	680	1070	1640	2490	
30	575	3	37	31.1	-	-	-	680	1070	1670	2560	3880	
40	460	3	64	42.4	-	-	-	-	-	790	1210	1830	
40	575	3	51	42.4	-	-	-	-	790	1240	1900	2860	

LIGHT BIDDING SPECIFICATIONS

Enter the Letter Indicator from the Light Set Chart below _____. For the letter selected, the number of lights must be _____, the wattage per light must be _____, the total wattage must be _____, and the type of beam must be _____.

TITAN SERIES FOUNTAIN PATTERNS		
SPRAY NOZZLE	HORSEPOWERS	
	7.5 & 10	15 & 20
Buckingham	C	A & B
Cascade	D	D
Daffodil	C	A & B
Double Trellis	C	A & A
Flare & Sky Geyser	C	A & B
Fleur de Lis	C	A & B
Geyser	D	A & B
Lily	C	A & B
Majestic	C	A & B
Quad	C	A & A
Scepter	C	A & B
Shooting Star	C	A & B
Sky Geyser	D	B & B
Spoke & Trellis	C	A & A
Tiara	C	A & B
Trellis	C	A & A
Trellis & Sky Geyser	C	A & B

A = 3 x 500 watt FLOOD
B = 3 x 500 watt SPOT
C = 4 x 500 watt FLOOD
D = 4 x 500 watt SPOT

Colored Lenses: Colored lenses must be available to provide colored spray pattern illumination if specified.

Producer: Light packages will be produced by Aqua Control, Inc., 6A Wolfer Industrial Drive, Spring Valley, IL 61362, Phone:800.377.0019, 815.664.4900, Fax: 815.664.4901.

Light Installation: Stainless steel light brackets must allow vertical adjustment of the lights to achieve proper submergence and must allow the angle of the light to be adjustable to optimally illuminate the spray pattern.

Light Fixture: The fixture must be made of copper, marine grade bronze and must be provided with tempered lenses and a silicone rubber gasket.

Light Sequencing: The lights must be capable of Random Sequencing, Ramping Sequencing, or Operation by Program when specified.

Light Sets: Lights must be available in 2, 3, or 4 sets. Each set may have 2, 3, or 4 lights. Lights may be either 300 watt incandescent or 500 watt halogen and either must be available in spot or flood.

Underwater Power Cord: The power cord supplying the light set must be UL listed for continuous submergence. It must be SOOW heavy duty round stranded and double insulated, copper cord.

Warranty: The entire system must carry a 3-year warranty on parts and factory labor. Glass lenses and light bulbs carry a 30-day warranty.

* Above recommendations are for normal lighting.

LIGHT CORD SIZING TABLES

60 Hz - SIZING (120V)														
LIGHTS				WATTS		AMPS	3 WIRE LIGHT CORD				4 WIRE LIGHT CORD			
Total	Light Set Description	Sets	Lights/ Set	Watts/ Set	Total	Total	Used for 1 set of lights per cord				Used for 2 sets of lights per cord			
							#12/3	#10/3	#8/3	#6/3	#12/4	#10/4	#8/4	#6/4
3	3 lights x 300 W	1	3	900	900	7	230	360	580	850	-	-	-	-
3	3 lights x 500 W	1	3	1500	1500	13	120	200	300	500	-	-	-	-
4	4 lights x 300 W	1	4	1200	1200	10	160	250	400	640	-	-	-	-
4	4 lights x 500 W	1	4	2000	2000	17	100	150	240	380	-	-	-	-
4	2 lights x 300 W	2	2	600	1200	10	-	-	-	-	640	1000	1600	2500
4	2 lights x 500 W	2	2	1000	2000	17	-	-	-	-	400	600	1000	1500
6	3 lights x 300 W	2	3	900	1800	15	-	-	-	-	450	720	1060	1700
6	3 lights x 500 W	2	3	1500	3000	25	-	-	-	-	210	400	600	1000
8	4 lights x 300 W	2	4	1200	2400	20	-	-	-	-	300	500	800	1300
8	4 lights x 500 W	2	4	2000	4000	33	-	-	-	-	200	300	500	750

