

# SUNBURST AERATING FOUNTAIN SPECIFICATIONS

3HP 460V 3PH 60HZ

**MODEL:** The aerator shall be a floating, surface spray aerator with a “fan” shaped spray pattern.

Spray dimensions are: 10 feet ( 3.1 m) in height, and 30 feet ( 9.1m) in diameter.

**PUMPING CAPACITIES:** The primary pumping rate of the unit is 775 GPM ( 176.0 m3/hr) and the secondary or induced circulation rate is 7750 GPM ( 1760.2 m3/hr).

**FLOAT:** The float shall be made of seamless, one-piece high-density polyethylene plastic, filled with high density closed cell polyurethane foam. The float shall be capable of providing full floatation if the shell is punctured or cracked. The float shall have protective pockets for lights and handles molded into the bottom for easy handling. Metal floats or those with an internal void for additional ballast are not acceptable.

**FIXED FOUNTAIN STAND:** When selected the fixed fountain stand will replace the Float. The Fixed Fountain Stand shall be manufactured out of 316 stainless steel, with 304 stainless steel hardware and is designed with adjustable legs that can be used in depths between 22in to 30in (56cm to 76cm). Each stand will be supplied with rubber pads on each leg to be used with solid/mason type bottom applications, where rubber pads are to be removed for earth bottoms.

**IMPELLER:** The impeller shall be balanced and investment cast from types 304/CF8 stainless steel. A type 304 stainless steel bolt and set-screw shall secure the impeller to the motor shaft. Flexible shaft couplings are not acceptable.

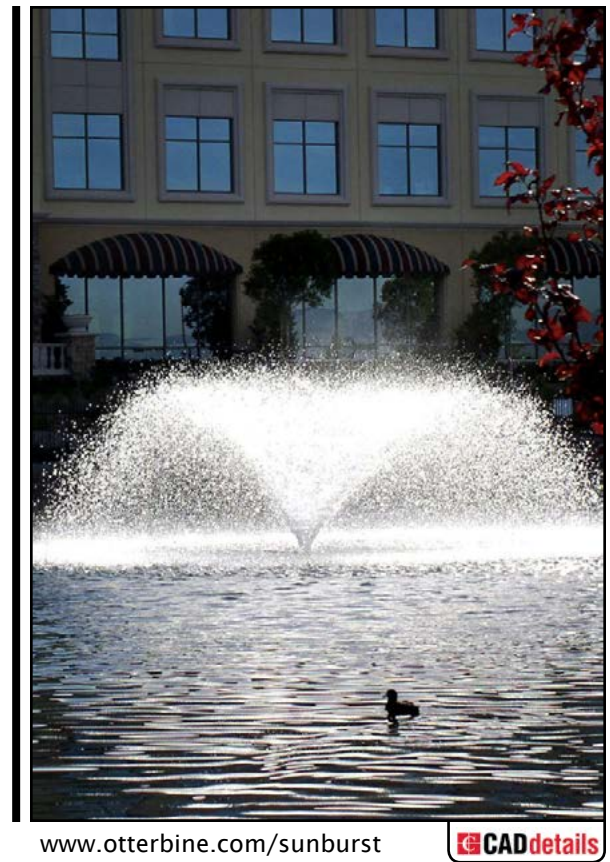
**MOTOR:** The motor shall be a 3HP, 460 volt, 3 phase, 60 HZ oil-cooled, submersible motor operating at 3450 RPM or 50 Hz operates at 2875 RPM. The motor shaft exposed to water shall be 316 stainless steel. The service factor shall be 1.15 except for 5HP 1Ph which shall be 1.00. The motor shall operate in a reservoir of Otterbine oil for continuous lubrication of bearings and for efficient transfer of heat through the motor housing wall. Top mounted motors and water-lubricated motors are not acceptable. The rotor shall be dynamically balanced. The winding (stator) wires shall be covered with class F rated insulation designed for complete immersion in oil. The motor shall be attached to a thermoplastic motor base plate. The motor shall be protected against oil and water leakage by a combination of rotary seals, stationary seals, and molded rubber “O” rings. Motor shall be serviceable.

**MOTOR HOUSING:** The external motor housing shall be a canister formed from deep drawn 316 stainless steel. The motor base plate shall be constructed of 420 Valox thermoplastic. A Valox boss will provide support and protection for the male electrical connector.

**FASTENERS:** All fasteners are to be metric and stainless steel.

**ELECTRICAL CONNECTORS:** The electrical connectors shall consist of a receptacle and a plug constructed of non-conductive polymers. The system shall create a vacuum seal when connected and have a threaded nut system as a backup. The plug shall have a keyway and be threaded into the motor base plate. The connector system shall be UL recognized.

**UNDERWATER POWER CABLE:** The power cables shall be type SOOW specifically designed for underwater use. The conductors shall be flexible, stranded bare copper 12, 10 or 8-gauge. The outer jacket of the cable shall be a black CPE material. All underwater connections shall be vulcanized. Power cable shall be able to be furnished in unspliced lengths up to one thousand feet (305m) if necessary.



[www.otterbine.com/sunburst](http://www.otterbine.com/sunburst)

CADdetails

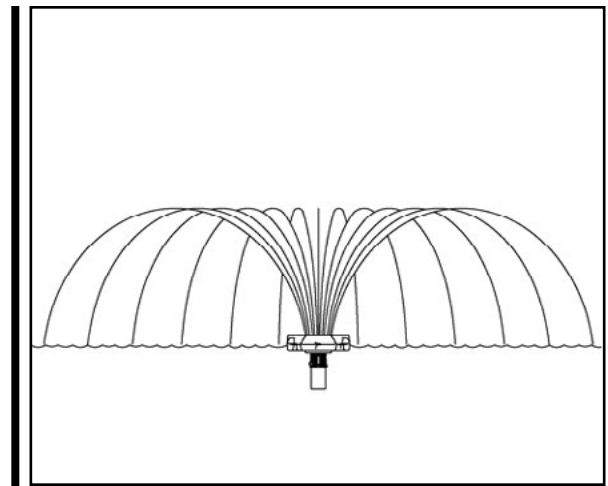
**POWER CONTROL CENTER:** The electrical components shall be mounted in a NEMA 4X rated enclosure with an externally mounted disconnect switch, and a HAND - OFF - AUTO selector switch. The electrical system for all units (115, 208-230, 380-415 & 460V) shall include a non-reversing 600V rated contactor, thermal overload relay, short circuit protection, and 24hr timer. All units shall include 5mA trip level ground fault protection. To operate the ground fault protection and control circuit on 208-230 volt systems a neutral must be present. The electrical system shall include a lightning arrester, rated for a maximum of 100,000 amperes discharge.

**TESTING:** A. Safety - Unit must be tested by ETL, ETL-C, UL or other accredited testing facilities. B.PCC (Power Control Center) must conform to UL508A and be built in a UL508A certified panel shop. Performance - Unit must have independent performance testing provided by the University of Minnesota.

**WARRANTY:** The warranty shall be five years.

**ACCEPTABLE MANUFACTURER:** This unit shall be an OTTERBINE Sunburst Aerating Fountain manufactured by OTTERBINE BAREBO, INC., 3840 MAIN ROAD EAST, EMMAUS, PA 18049 U.S.A. PH: (610) 965-6018. WEB: www.otterbine.com

**OPTIONAL LIGHT PACKAGE:** Unit to include manufacturer's suggested light package, see additional specification form.



CAD DRAWING: Sunburst Aerating Fountain



INSTALLATION METHODS

**MODEL: SUNBURST AERATING FOUNTAIN**

Motor	HP	Spray Height ft (m)	Spray Diameter ft (m)	Pumping Rate* GPM (m <sup>3</sup> /hr)	Electrical Rating	Running Amps	Maximum Cable Gauge/Length ( <sup>†</sup> Additional cable options may be available)			Shipping Weight**
							12AWG/4mm <sup>2</sup>	10AWG/6mm <sup>2</sup>	8AWG/10mm <sup>2</sup>	
3450RPM @ 60HZ	1	4ft	15ft	530 GPM	115V 1Ph	15	<del>300/375ft</del>	150ft	250ft	150lbs
					208/230V 1Ph	8.3/7.5	300/375ft	500/600ft	800/975ft	
	2	7ft	24ft	640 GPM	208/230V 1Ph <sup>†</sup>		175/225ft	300/375ft	475/575ft	150lbs
					15.5/14	<del>300/375ft</del>	250/325ft	425/525ft		
	3	10ft	30ft	775 GPM	208/230V 1Ph <sup>†</sup>		<del>300/375ft</del>	250/325ft	425/525ft	155lbs
					208/230V 3Ph		<del>300/375ft</del>	500/625ft	800/975ft	
					460V 3Ph <sup>†</sup>		1000ft	<del>300/375ft</del>	<del>425/525ft</del>	
	5	11ft	40ft	1100 GPM	230V 1Ph		<del>300/375ft</del>	<del>300/375ft</del>	300ft	160lbs
					208/230V 3Ph		200/250ft	300/400ft	500/625ft	
					460V 3Ph <sup>†</sup>		925ft	1000ft	<del>300/375ft</del>	

\*Induced Circulation is 10X the Pumping Rate. \*\* Shipping weights are estimates and include unit, power control center and 50ft (15m) of cable. Minimum Operating Depths: Floating Fountain is 30in (75cm); Fixed Fountain Stand is 22in (56cm). 415V and 575V units available upon request. Spray performance and pumping rates are approximate and may vary due to voltage, elevation and relative humidity. Specifications are subject to change.