

# POLARIS GIANT FOUNTAIN SPECIFICATIONS

10HP 415V 3PH 50HZ

**MODEL:** The model shall be a Polaris Giant Fountain and produce a wide geyser like decorative spray pattern.

Spray dimensions are: 23 feet (7 m) in height, and 8 feet (2.4 m) in diameter.

**PUMPING CAPACITIES:** The primary pumping rate of the unit is 675 GPM (153 m<sup>3</sup>/hr) and the secondary or induced circulation rate is 6,750 GPM (1,530 m<sup>3</sup>/hr).

**FLOAT:** The float shall be made of high-density polyethylene. Two sections of the float shall be filled with polyurethane. The float shall allow for easy height adjustment via a water intake which will minimize the visibility of the float and assist in keeping it level in the water.

**NOZZLE:** All nozzle ring systems shall be made of plastic/brass.

**MOTOR:** The motor shall be a 10HP, 415 volt, three phase, 50Hz submersible motor operating at 2875 RPM. The service factor shall be 1.15. The motor shall be a water-cooled 6 inch (15.2cm) Franklin Super Stainless Steel Motor or better.

**PUMP:** The pump shall be a Grundfos submersible pump for 10HP, 15HP and 25HP with a 4 inch (10.2cm) NPS discharge.

**FRAME:** The frame shall be manufactured of type 304 stainless steel with four polyethylene with UV inhibitor wheels affixed to the bottom for ease of installation.

**SCREEN:** The screen shall be manufactured of 22 gauge stainless steel and shall be removable from a boat.

**UNDERWATER POWER CABLE:** The power cable shall be type SOW or SOOW specifically designed for underwater use. The cable shall be U.L. listed. The conductors shall be flexible, bench stranded bare copper AWG 10, 8, 6, or 4 triple insulated to resist moisture, cracking, and softening. The outer jacket of the cable shall be a black CPE material. All underwater connections shall be spliced according to Franklin Motor Specifications. Power cable shall be able to be furnished in un-spliced lengths up to one thousand feet (305 m) if necessary.

**POWER CONTROL CENTER:** The electrical control components shall be mounted in a NEMA 4X rated enclosure with an externally mounted disconnect switch and a MANUAL - OFF - AUTO selector switch. The electrical system for units operating on 230 volt single or three phase with the exception of 15HP 230V single phase and 25HP, 230V three phase, shall include a circuit breaker and a 5 milliamp GFCI (Ground Fault Circuit Interrupter). To operate the GFCI on 230 volt systems a grounded neutral must be present or an optional control transformer may be supplied. The electrical system for units operating on 380(50 Hz), 415V(50Hz) and 460 volt shall have circuit breakers. For all units the motor starter shall be a combination magnetic full-voltage non-reversing type, 600 volts maximum, with magnetic and adjustable thermal trip overload relays and auxiliary contact for lighting. The electrical system shall include a three-pole surge arrester, rated for a maximum of 60,000 amperes discharge. The control system will include a 7 day timer.

**TESTING:** The fountain system shall be tested and approved as a unit. Unit must be tested by ETL, UL or other accredited testing facilities, and carry a CE certification.

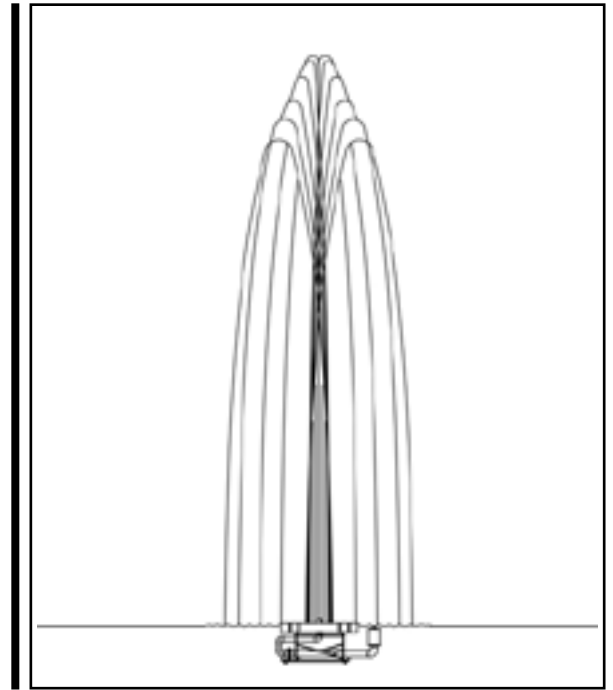


[www.otterbine.com/giant-fountains/polaris/](http://www.otterbine.com/giant-fountains/polaris/)

**WARRANTY:** The warranty shall be a 4 year warranty. (5 year warranty when you purchase Sub-Monitor option with unit.)

**ACCEPTABLE MANUFACTURER:** This unit shall be an OTTERBINE 10HP Polaris Model, 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: Polaris Giant Fountain

MODEL: POLARIS								
Motor RPM/Hz	HP	Spray Height	Spray Diameter	Pumping Rate*	Volt/Ph/Amp	Maximum Cable Gauge/Length (Additional cable options available)		Shipping Weight**
						CABLE GAUGE	CABLE RUN	
2875 @ 50Hz	10	7m	2.4m	153.2 m <sup>3</sup> /hr	380/3/16	10/4	168m	410kg
					415/3/16	10/4	183m	
	15	8.5m	2.4m	170.3 m <sup>3</sup> /hr	380/3/24	10/4	107m	420kg
					415/3/24	10/4	122m	
	25	10.1m	2.4m	272.4 m <sup>3</sup> /hr	380/3/40	8/4	107m	435kg
					415/3/40	8/4	114m	

\*Induced Circulation is 10X the Pumping Rate. \*\* Shipping weights are estimates and include unit, power control center and 100ft (30.5m) of cable. Minimum operating depth is 40in (1m). Spray performance and pumping rates are approximate and may vary due to voltage, elevation & relative humidity. *Specifications are subject to change.*