

AQUA SERIES SPECIFICATIONS

1/4HP & 1/2HP Fractional Aerators



PUMPING CAPACITIES: The aerator shall be a floating, surface spray aerator with two separate interchangeable spray patterns. The Aqua Gem shall be a “plume” shaped spray pattern, with a spray height of _____ feet or _____ meters and the spray diameter _____ feet or _____ meters. The primary pumping rate shall be _____ GPM or _____ m³/hr and the secondary or induced circulation rate shall be _____ GPM or _____ m³/hr. The Aqua Blast shall be a low profile “mushroom” shaped spray pattern, with a spray height of _____ feet or _____ meters and the spray diameter _____ feet or _____ meters. The primary pumping rate shall be _____ GPM or _____ m³/hr and the secondary or induced circulation rate shall be _____ GPM or _____ m³/hr.

FLOAT: The float construction is roto-molded from a black polyethylene material and is filled with a closed cell polyurethane foam. The float shall be capable of providing full floatation if the shell is punctured or cracked. Lights snap into float thereby eliminating any brackets and no tools are needed to mount them. Metal floats or those with an internal void for additional ballast are not acceptable.

IMPELLER: The impeller shall be dynamically balanced and constructed of glass reinforced thermoplastic called Isoplast. The impeller shall be attached to the keyed motor shaft by means of a M6 bolt and (2) M6 washers (one stainless steel, one nylon.) Flexible shaft couplings are not acceptable.

PUMP COMPONENTS: All pump components shall be constructed of glass reinforced thermoplastics.

MOTOR: The impeller is to be driven by a _____ volt, single phase, _____ HP Franklin high speed PSC (Permanent Split Capacitor) motor with internal automatic reset overload. This shall be a motor rated for continuous duty and operating at 3,250 RPM at 60 Hz (2,700 RPM at 50 Hz). The motor housing shall be constructed of marine grade aluminum that is polyester powder coated for corrosion resistance.

DEBRIS SCREEN: A debris screen constructed of 1/4” (.64cm) nylon mesh shall surround and enclose the intake of the Aqua Series fractional aerator.

FASTENERS: All fasteners shall be made of type 304 or 18-8 stainless steel.

UNDERWATER POWER CABLE: The power cable shall be SJOOW 12 AWG rated for 300 volts, constructed with synthetic rubber insulation and a thermoset jacket to resist heat, moisture, cracking and softening. It shall be UL and CSA listed.

ELECTRICAL CONTROLS: The electrical control components for the 115v units shall be mounted in a NEMA 3R enclosure, the electrical controls shall consist of a 24-hour timer and a GFCI. The electrical control components for the 230v and 220v (50Hz) units shall be mounted in a NEMA 3R enclosure, the electrical controls shall consist of a 24-hour timer, fuse, contactor, and a GFCI.

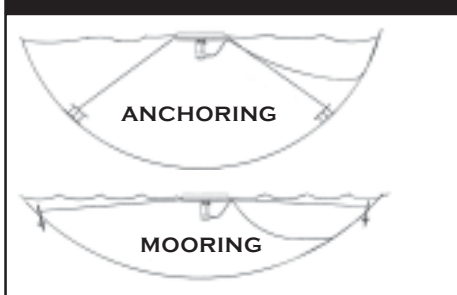
TESTING:

- A. Safety - The Aqua Series shall be tested and approved as a unit. Separate component testing not allowed. Unit must be tested by ETL, ETL-C, CE, UL or other accredited testing facilities.
- B. Performance - Unit must have independent performance testing provided by the University of Minnesota.

WARRANTY: This shall be a two year warranty.

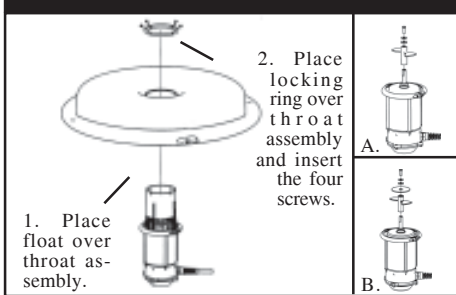
ACCEPTABLE MANUFACTURER: This unit shall be an Otterbine _____ Horsepower Aqua Series fractional aerator manufactured by OTTERBINE/BAREBO, INC. 3840 MAIN ROAD EAST, EMMAUS, PA 18049 U.S.A. PH: (610) 965-6018. www.otterbine.com

ANCHOR/MOORING INSTALL



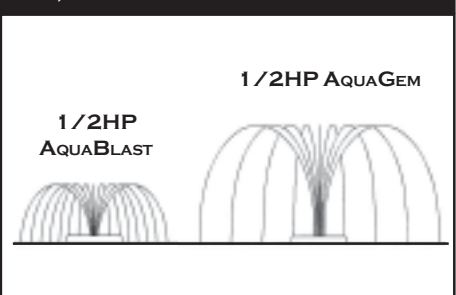
Anchoring/mooring the Otterbine Unit is simple. Each owner's manual provides the steps necessary to securely place your unit in the waterway. For more information visit www.otterbine.com

ASSEMBLY DIAGRAM



Assembly of the AquaSeries is simple (see above.) The unit arrives in the AquaGem design ready to be placed into your pond for enjoyment. To convert patterns from the AquaGem (Fig.A) simply remove the slinger disk component for the AquaBlast (Fig. B). *Please make sure the unit is disconnected from it's electrical source when converting patterns.*



AQUA SERIES CAD DETAIL



Line drawings of a side-by-side comparison of the 1/2HP AquaBlast and 1/2HP AquaGem units, for a more detailed diagram of this and other models visit us online or at www.caddetails.com.

Note: The following two spray patterns are included in the Aqua Series Package.

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Pattern	HP	Voltage/Phase/Hz	Motor RPM	Amp Draw	Spray Height	Spray Diam.	Pump Rate*	Min. Oper Depth	Ship Weight**
	1/4	115/1/60	3250	3.1	3 ft	7 ft	175 GPM	13"	38lbs
		230/1/60	3250	1.5	3ft	7ft	175 GPM	13"	44lbs
		220/1/50	2700	1.8	.9 m	2.1 m	39.7 m ³ /hr	33 cm	17.2kg
	1/2	115/1/60	3250	5.5	4 ft	9.5 ft	200 GPM	14"	46lbs
		230/1/60	3250	2.7	4ft	9.5ft	200 GPM	14"	52lbs
		220/1/50	2700	3.2	1.2 m	2.9 m	45.4 m ³ /hr	35.5 cm	20.9kg
	1/4	115/1/60	3250	3.1	1.5 ft	4 ft	210 GPM	13"	38lbs
		230/1/60	3250	1.5	1.5ft	4 ft	210 GPM	13"	44lbs
		220/1/50	2700	1.8	.4 m	1.2 m	47.7 m ³ /hr	33 cm	17.2kg
	1/2	115/1/60	3250	5.5	2 ft	5.5 ft	260 GPM	14"	46lbs
		230/1/60	3250	2.7	2ft	5.5 ft	260 GPM	14"	52lbs
		220/1/50	2700	3.2	.6 m	1.7 m	59.1 m ³ /hr	35.5 cm	20.9kg

Induced circulation is 10 times the listed pumping rate. Spray patterns will also vary due to voltage drop, humidity and other relevant site situations.**Shipping weight includes complete package: unit, all spray patterns, cable (1/4hp comes standard with 50'/15 m 12awg cable or 1/2hp comes standard with 100'/30 m of 12awg cable on units sold in the U.S.), screen and mini power panel (except 50Hz units). *Specifications are subject to change.*