

REEF OCTOPUS[®]

Bubble Blaster Skimmer Pump
INSTRUCTION MANUAL

*** NOTE ***

If you have any questions or issues with this Reef Octopus product please contact us at:

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REEF OCTOPUS[®]

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2012 Edition



Warning! The air tubing must be attached before operating this skimmer pump!

Thank you for purchasing the super efficient Bubble Blaster skimmer pump. For optimum performance and safety, please read this instruction manual carefully and keep it handy for future reference.

Model	Volts/ Hertz	Watts	Head	Air Suction
HY-1000S	230V/50Hz	15w	0.3m	300L/h
	120V/60Hz	20w	0.3m	500L/h
HY-2000S	230V/50Hz	25w	0.3m	1000L/h
	120V/60Hz	30w	0.3m	1200L/h
HY-3000S	230V/50Hz	35w	0.3m	1200L/h
	120V/60Hz	40w	0.3m	1400L/h

FEATURES

- High efficiency, energy saving, durable use.
- Clear multi position volute housing
- The shaft is made of high grade ceramic.
- For external and internal submersible uses.
- Low heat emission
- Digital Circuit board: directional startup, RPM speed control & auto-shut-off safety switch
- Sturdy silicone foot pegs for reduced pump vibration and stability.

APPLICATION: Protein skimmer for water filtration

This pump specifically developed for protein skimmers and can be fitted to the Reef Octopus line of skimmers. Some octopus skimmer bodies may require an additional adapter fitting to mate the pump to the skimmer body. Initial running noises will decrease distinctly after a running-in period of approximately two weeks. Slight purging or stutters in air draw are normal during the break in period and will cease after the break in period of the pump.

MOUNTING/INSTALLATION INSTRUCTIONS

In terms of the product design, it can be placed externally or within the water.

If the protein skimmer pump is used under the water, the water outlet of the pump should be installed onto the protein skimmer body and be sure the electrical supply is disconnected before placing in water.

If the skimmer pump is used externally, it should be installed onto the protein skimmer by connecting the water inlet plumbing including air intake device (venturi), and the outlet is firmly attached to the skimmer body. Either mount the pump needs to be place on a flat and solid surface. Always make sure the power cord makes a drip loop to prevent water from running into power receptacle.

USAGE CAUTION

1) **DANGER**-To avoid possible electric shock, special care should be taken since water is employed in the use of this pump. For each of the following situations, do not attempt repairs yourself; return the pump to the store where it was purchased or contact the distributor if still under warranty.

- A. If the pump shows any sign of abnormal water leakage or if GFCI-Ground Fault Current Interrupter switches off, disconnect the power supply cord from power supply and remove pump from water.
- B. Carefully examine the pump after installation. It should not be plugged if there is water on the pump's plug.
- C. Do not operate pump if it has a damaged cord or plug, if it is malfunctioning or if it is damaged in any manner. **The power cord of this appliance cannot be replaced; if the cord is damaged, the appliance should be discarded. Never cut the cord.**

2) Close supervision is necessary when any electrical appliance is used by or near children.

3) To avoid injury, do not touch moving or hot parts.

4) **CAUTION**-Always unplug or disconnect the pump from the electrical supply before servicing the pump, while the equipment is being installed or when being handled. When inserting or removing the pump from the water, always disconnect main electrical plug. **Never yank the cord to pull the plug from outlet.** Grasp the plug and pull to disconnect. Always unplug an appliance from an outlet when not in use. **Never lift the pump by the cord.**

5) **CAUTION**-This is a protein skimmer pump. This pump Has Been Evaluated for Use With mixing water and air only. Do not use this pump for other than intended use. The use of attachments not recommended or sold by the pump manufacturer may cause an unsafe condition.

- A. This pump is suitable for use in water temperatures up to 0- 350C;
- B. Do not use this pump with inflammable or drinkable liquids.

6) Do not install or store the pump where it will be exposed to the weather or to temperatures below freezing. Remove and store the pump in a sheltered place. Shelter pump also from direct sunlight. The materials have high stability to sunlight but direct rays may overheat the motor and speed up insulator aging.

7) **IMPORTANT**- Do not allow the pump to run dry. The pump must be immersed in water completely or plumbed in a closed loop fashion. This pump must never operate without water.

8) If an extension cord is necessary, ensure connection is watertight and dust proof. A cord with proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled. The connection should be carried or by a qualified electrical installer. Make sure to install the impeller/ rotor gently to prevent damage.

9) **IMPORTANT**-Supply through a Residual Current Device (RCD or Ground Fault Current Interrupter) with rated residual current not exceeding 30 mA.

10) This pump is not intended for use by persons (*including children*) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the pump by a person responsible for their safety. Children should be supervised to ensure that they do not play with the pump.

MAINTENANCE

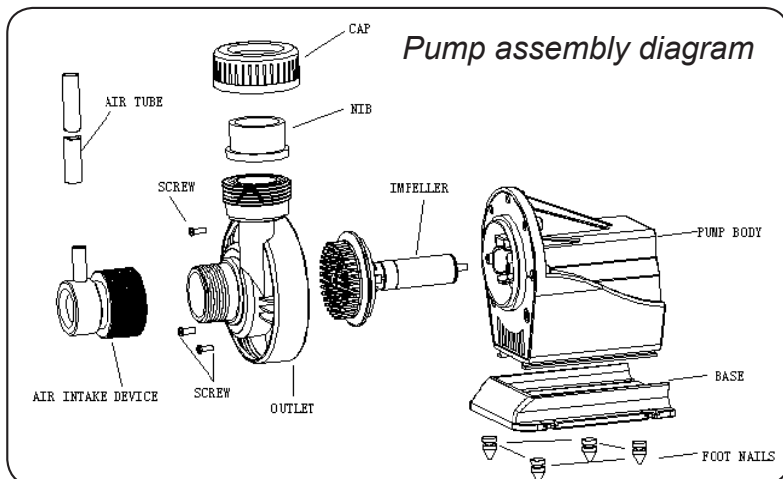
Sand and lime deposits may increase the wear of the shaft & bearings considerably and may lead to the exclusion of warranty. **To maintain efficient performance of the pump, periodic cleaning is required.** Thoroughly clean the pump, the drive assembly and the cooling duct in regular intervals, at least once every six months. In case of high lime content, a lot of sediment or failures, shorter intervals may be necessary.

WARNING: Always unplug or disconnect the pump from the electrical supply before servicing the pump, while the equipment is being installed or when being handled. When inserting or removing the pump from the water, always disconnect main electrical plug. **Never yank the cord to pull the plug from outlet.** Grasp the plug and pull to disconnect. Always unplug an appliance from an outlet when not in use. **Never lift the pump by the cord.**

SERVICING / DISASSEMBLY

- 1) Unplug pump from power source and detach pump from skimmer body.
 - 2) Clean outside of pump motor body to remove any accumulated debris or buildup.
 - 3) Inspect and clean air intake device (venturi)
 - 4) Remove volute by unscrewing the 4 Phillips head screws holding it to the pump body.
 - 5) Remove and inspect impeller, cooling duct and bearings for noticeable signs or wear, damage, debris or buildup
- * Be sure to handle the impeller shaft with care.**
- 6) Soak pump body and parts in a solution of vinegar and water (50%-50% mix) for a duration or several hours or more depending on the buildup. **DO NOT USE DETERGENTS OR OTHER CHEMICALS CLEANERS** which could damage the pump or pollute the aquarium.
 - 7) Rinse and reassemble the components with care. (You can apply silicone-based lubricant to extend the life of o-rings or gaskets before re-installing.)
 - 8) Install pump back to skimmer body and plug into power source.

- To keep the pump in good working order, always replace any worn parts
- The pump motor has no user serviceable parts. If the motor or the electrical cord is damaged, discard the pump.
- If you have any doubts, contact your Bubble Blaster retailer or contact CoralVue.



PLEASE RETAIN YOUR PROOF OF PURCHASE.
It will be required if you ever need to claim warranty service.

A GUIDE TO SIMPLE PROBLEMS SOLVING

Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing

SYMPTOM	CAUSE	COUNTERMEASURE
The pump doesn't run	Power is not turned on	Turn on the power
	Plugged in insufficiently	Be sure the power cord is plugged into a live socket
The motor repeats on and off immediately without running. The motor suddenly stops and doesn't start again	Impeller binding	Remove foreign matters from impeller
	Apply to wrong voltage	Apply to correct voltage
	The water intake or outlet pipe is clogged with foreign matters	Clean up inside*
	The air intake is clogged with foreign matters	Clean up inside*
The pump runs with reduced or no performance	Apply to wrong frequency	Apply to correct frequency
	Impeller worn out	Replace impeller
	Water level goes down and the pump is exposed to the water surface	Place pump into water
	Running in fresh water	Raise your salinity levels to normal salt water levels
The pump runs normally at the beginning but the water flows sluggishly or there is no water	Hose is too long or clogged with foreign matter	Shorten the hose or clean out the foreign matters
	There is air in the impeller chamber	In order to get rid of the air, put the pump into the water. Turn the switch to "ON" then "OFF" intermittently twice or 3 times
The pump is making a loud vibration sound or hum.	The pump is breaking in	Allow the pump 2-3 weeks to break in.
	Buildup, breakage or debris is caught in the impeller assembly	Remove impeller and inspect for debris, buildup or damage and take necessary action.
Decrease in air draw or increase in wattage.	Clogged venturi	Remove venturi and clean

*To clean the inside of the pump, please refer to the maintenance section of this manual.



WARRANTY – The pump is guaranteed against defects in materials or workmanship for a period of THREE (3) years from the date of original purchase, under normal use. This warranty is not transferable and is enforced from the date of purchase at retail.

Please retain a copy of your sales receipt for proof of purchase. Bubble Blaster pump will be repaired or replaced at manufacturer's discretion. This warranty does not apply to any Bubble Blaster pump which has been subject to misuse, negligence, tampering or accidental damage. No liability is assumed with respect to loss or damage to livestock or personal property irrespective to the cause thereof. Failure caused by misuse is not covered by this warranty.

Record your pump information here for future reference

Skimmer Model: _____

Pump Model: _____

*Serial Number: _____

Retailer Name: _____

Date of Purchase: _____



***Your pump's serial number is located on the back of the pump and will be required if you need service of any sort.**