

SeaClone[®] Protein Skimmer SCPS100 • SCPS150



 **MARINELAND**

Owner's Manual

IMPORTANT SAFEGUARDS

WARNING: To guard against injury, basic safety precautions should be observed, including the following.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

DANGER: To avoid possible electric shock, special care should be taken in the use of aquarium equipment. For each of the following situations, do not attempt repairs yourself. Return the appliance to an authorized service facility for service or discard the appliance.

1. A. If the appliance falls into the water, DON'T reach for it. First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately.
- B. If the appliance shows any sign of abnormal water leakage, immediately unplug from the power source.
- C. Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not intended to be wet.
- D. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or if it is dropped or damaged in any manner.
- E. To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop," shown in the figure at right, should be arranged by the user for each cord connecting an aquarium appliance to a receptacle.

The "drip loop" is that part of the cord below the level of the receptacle or the connector, if an extension cord is used, to prevent water from

traveling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water in the receptacle.

2. Close supervision is necessary when any appliance is used by or near children.
3. To avoid injury, do not contact moving parts or hot parts such as heaters, reflectors, lamp bulbs, etc.
4. Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
5. Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
6. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
7. Make sure an appliance mounted on a tank is securely installed before operating it.
8. Read and observe all the important notices on the appliance.
9. If an extension cord is necessary, a cord with a 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.
10. This appliance has a polarized plug (one blade is wider than the other). As a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not attempt to defeat this safety feature.

SAVE THESE INSTRUCTIONS

SeaClone

Protein Skimmer



The SeaClone Protein Skimmer harnesses the powerful forces of nature to efficiently remove dissolved organics and waste from your marine aquarium.

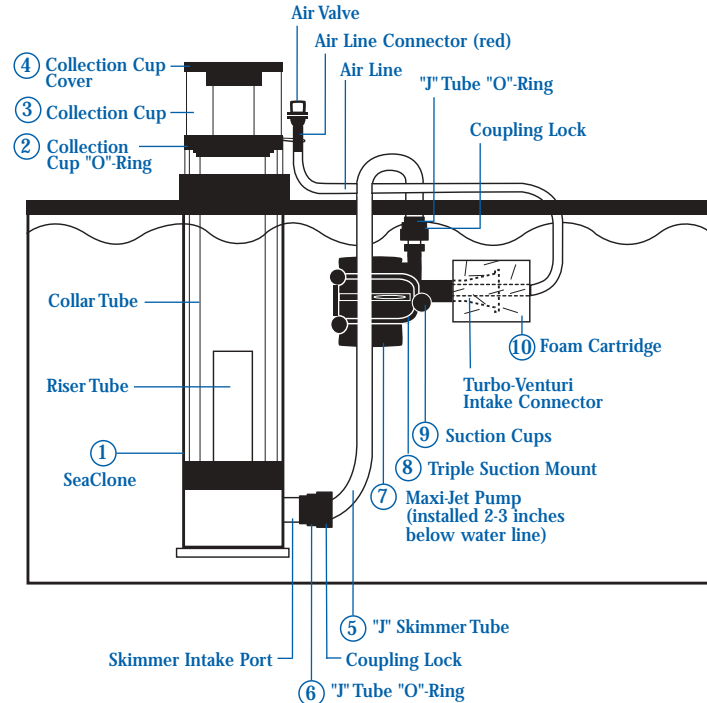
The exclusive **Turbo-Venturi® Injector System** mixes filtered water and air in the pump impeller chamber, generating a froth of micro-bubbles for maximum skimming efficiency and improved gas exchange. Air and water swirl together in the **Vortex Reaction Chamber**, creating a powerful “tornado” effect that rapidly draws dissolved wastes from aquarium water.

The spiraling air/water mixture propels protein-laden bubbles upward, where they are trapped and contained in the high-capacity **Collection Cup** (separate from clean water) until removed.

Replacement Parts List

KEY	ITEM DESCRIPTION	ITEM NO.	
1	SeaClone	SCPS100	SCPS150
2	Collection Cup "O"-Ring	4502	4502
3	Collection Cup	4503	4503
4	Collection Cup Cover	4504	4504
5	"J" Skimmer Tube	7020	7022
6	"J" Tube "O"-Rings	7008	7008
7	Maxi-Jet 1200 - (Modified)	MPB1200R	MPB1200R
8	Triple Suction Cup Mount	00.40.004	00.40.004
9	Suction Cups (4pk.)	00.40.001	00.40.001
10	Foam Cartridges (2pk.)	9 Filt0	9 Filt0
See Various Parts	Turbo-Venturi Set: Air Line, Air Valve, Air Line Connector (red), Turbo-Venturi Intake Connector	4505	4505
N/A	"O"-Ring - Maxi-Jet Impeller Chamber	00.45.004	00.45.004
N/A	Impeller Assy., MP1200	00.45.012	00.45.012

Parts Diagram & Identification



Assembly/Operational Instructions

BEFORE YOU BEGIN INSTALLATION. . .

UNPACK AND INSPECT ALL PARTS. Check to make sure you have all that are listed. If any are missing or damaged there is no need to return the entire SeaClone unit. Replacement parts may be obtained from the store where purchased, or by calling Aquarium Systems Technical Support - (800) 822-1100.

RINSE THE PARTS OF SKIMMER BODY AND PUMP WHICH CONTACT WATER. Use clean, fresh water -- no soap or cleansers of any kind.

Hang-On Installation

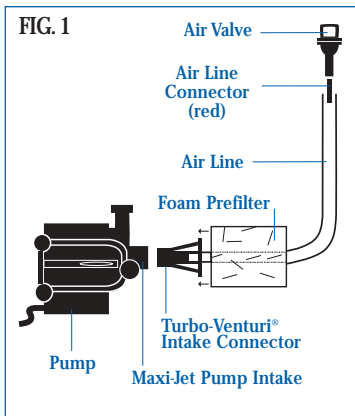
IMPORTANT NOTE: For “hang-on” installation, four inches of clearance are required between tank edge and wall.

STEP 1:

Insert elbow end of “J” **Skimmer Tube** into **Skimmer Intake Port** at base of **SeaClone** unit. Turn coupling lock clockwise to secure **Skimmer Tube** in place. (See Parts Diagram, pg. 7)

STEP 2:

Attach **Air Valve** and red **Air Line Connector** to end of **Air Line**. Thread opposite end of air line through hole in **Foam Cartridge** and insert end into **Turbo-Venturi Intake Connector**. (FIG. 1)



STEP 3:

Slide **Turbo-Venturi Intake Connector** (with attached air tube) into **Maxi-Jet Pump Intake**. Slide **Foam Cartridge** over **Turbo-Venturi Intake Connector**. (FIG. 1)

STEP 4:

Fit “overhang” end of “J” **Skimmer Tube** over **Maxi-Jet Pump Outlet**. Turn **Coupling Lock** clockwise to secure **Skimmer Tube** in place. (See Parts Diagram, pg. 7)

STEP 5:

Secure **Air Line** to clip on side of **SeaClone** unit.
NOTE: Air Valve must be kept out of water at all times.

STEP 6:

Attach **Pump/Turbo-Venturi Assembly** in desired location.
NOTE: A triple suction cup mount can be used to attach the pump to the inside of the aquarium.

For best results, locate the Maxi-Jet Pump at a depth of about two – three inches beneath the aquarium water line. (See position indicated on page 7).

In-Sump Installation

IMPORTANT NOTE: For “in-sump” installation, *SeaClone 100* requires at least 20 inches of clearance between bottom of sump and underside of aquarium base. *SeaClone 150* requires at least 27 inches of clearance.

ADDITIONAL NOTE: “J” Tube Assembly is not used for In-Sump Installation.

(In-Sump Installation, cont.)

STEP 1:

Follow STEPS 2 and 3 as outlined in "HANG-ON INSTALLATION" section.

STEP 2:

Insert **Maxi-Jet Pump Outlet** into **Skimmer Intake Port** at base of **SeaClone** unit. (Fig. 2)

STEP 3:

Place assembled **SeaClone** unit in sump.

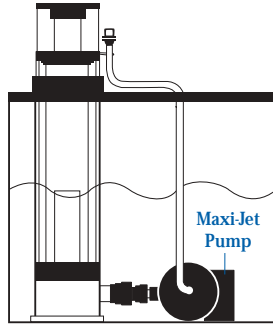


FIG. 2

STEP 4:

Secure **Air Line** to clip on side of **SeaClone** unit.

NOTE: Air Valve must be kept out of water at all times.

NOTE: If splashing from water overflow is a problem, position the Return Spout near the highest sump wall so that cascading water contacts and flows down the wall into the sump.

Flow Adjustment

After SeaClone is first plugged in, unscrew and remove the top portion of the Turbo-Venturi Air Valve. This facilitates maximum air intake and minimum water flow (approx. 50 GPH).

Then, to achieve optimal performance, re-connect the top and screw it all the way down (close). Unscrew (open) top approximately 3/4 - 1 1/2 turns, depending on pump location and water level.

IMPORTANT ADJUSTMENT NOTE: Too much or too little air will effect water flow rate and may cause bubbles to flow back into the aquarium. Minimal periodic adjustment may be needed due to a variance of organic loads within the aquarium.

The SeaClone Protein Skimmer may require a two or three day "break-in" period before significant buildup and collection of proteins and organics occurs. If the aquarium is new, it may take even longer.

Maintenance

Clean Foam Cartridge weekly -- or whenever it becomes dirty or clogged. Replacement cartridges (9 Filt0) are available at your local retail outlet.

Empty and clean the Collection Cup regularly. After emptying the Collection Cup, clean the Riser Tube thoroughly. *NOTE: Clean Collection Cup and Riser Tube with clear, clean water only - never use soap or cleansers of any kind.*

Check O-Ring (installed) at top juncture of Collection Cup and Vortex Reaction Chamber. If worn or damaged, the O-Ring should be replaced.

Check "J" Skimmer Tube O-Rings (installed). If worn or damaged, they should be replaced. Lubricate regularly with silicon lubricant to ensure suppleness and snug-fit integrity.

CUSTOMER SERVICE INFORMATION

For further assistance, or to order replacement parts direct, contact Aquarium Services Technical Support at 1-800-822-1100 Monday - Friday, between the hours of 8 a.m. and 5 p.m. (Eastern Time) Please have your manual and MasterCard or VISA ready when ordering.

LIMITED WARRANTY

Within two years from the date of original purchase, Aquarium Systems will repair or replace, at its option, any SeaClone Protein Skimmer which is deemed defective in workmanship or materials.

Please return the unit, together with proof of date of purchase, to your local dealer or send unit (postage paid) to:

Aquarium Systems
8141 Tyler Blvd.
Mentor, OH 44060

Damage or injuries resulting from negligence or misuse are not covered by these warranties. Incidental or consequential damages are specifically excluded*. These warranties give you specific legal rights. You may also have other rights which vary from state to state.

*Because some states do not allow the exclusion of incidental or consequential damages, this exclusion may not apply to you.



The Maxi-Jet 1200, MP1200 is listed by Underwriters Laboratories to ensure that it meets stringent U.S. and Canadian safety requirements.



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