

FISSION SKIMMER

Recirculating Protein Skimmer

Instructions for Recirculating Models
#8105, 8106

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WHAT'S NEXT

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SAFETY INSTRUCTIONS

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 since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs by yourself. Return the appliance to your retailer or discard the appliance.

- Always unplug 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 fully and pull out to disconnect.
- Carefully examine the appliance after replacement. It should not be plugged in if there is water on parts not intended to be wet.
- Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or has been dropped or damaged in any manner.
- Do not use the protein skimmer for anything other than its intended use. The use of attachments not recommended or sold by Current USA may cause unsafe conditions.
- Exposing power cords to water may cause electrical short and fire.
- Do not hang the skimmer on the back of the tank or hang on the sump wall. The recirculating pump can be submersed or run out of the water, however the skimmer is designed for in-ump use only.
- Do not operate skimmer without water flow to the unit. DO NOT operate recirculating pump dry.

SAVE THESE INSTRUCTIONS

GROUND FAULT CIRCUIT INTERRUPTER PROTECTION

To comply with the National Electrical Code (NFPA 70), and to provide additional protection from the risk of shock, this unit **MUST** be connected to a ground fault circuit interrupter (GFCI) outlet at all times. Do not use extension cords. **WARNING** – To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.



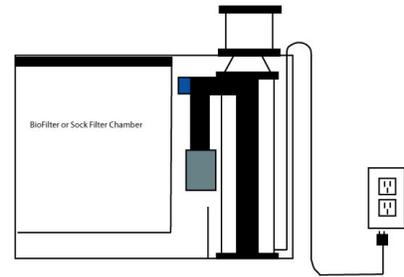
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WHAT'S NEXT

SKIMMER ASSEMBLY

WARNING

1. Always connect pump using a drip loop to avoid the risk of electrical shock. This prevents water from dripping down the power cord into an electrical outlet. Always use a GFCI outlet.
2. Never connect the pump to an electrical outlet with wet hands.
3. Always unplug the skimmer when servicing or not in use.



DRIP LOOP - Cord Plugged into GFCI Outlet

SKIMMER ASSEMBLY

1. Unpack skimmer components from box. Check the skimmer for any breakage during transit. Be sure to inspect all acrylic components for cracks before assembly. If any damage is found, contact your retailer immediately.
2. Place skimmer cup lid onto skimmer cup. Ensure that the waste port drain plug is in place. This port can optionally be used to drain waste product into a separate waste container. The port accepts 1/4" tubing (not included.)

Skimmer Collection Cup w/Drain Port and Lid Assembled



3. Assemble the bubble reducing trap and attach onto skimmer outlet. Using this trap is optional, however in most installations it will greatly reduce the amount of microbubbles that may pass thru the skimmer.

WARNING

When installing recirculating pump, the skimmer is likely to be very top heavy and possibly cause the skimmer can tip over. Avoid breakage by installing pump to the skimmer by placing the skimmer horizontally on a soft surface like carpet or a towel.

4. Align the recirculating pump, venturi suction inlet down, to the side mount fittings of the skimmer. Remove clear tape holding the O-rings in place. Carefully thread the compression fittings together by turning skimmer fittings clockwise over pump threads. Hand tighten fittings until pump is securely mounted to the skimmer. **IMPORTANT:** Ensure that the O-rings do not fall out of the molded in-set while installing. Attach inlet air tubing to barb fitting on near pump inlet. Attach air silencer to other end of air inlet tubing.



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WHAT'S NEXT

SKIMMER ASSEMBLY

COLLECTION CUP CONE

This area within the cone is the ideal level to maintain the skimmer water level (using level adjustment valve.) A high level within this cone will produce wet foam, a lower level will produce a dryer foam (usually desired.)

SKIMMER INLET

Connect the main water line or submersible pump (not included) to this 1/2" inlet. Ensure connection hose is clamped to prevent water leakage.

RECIRCULATING PUMP

Pump can be located in or out of the water.

AIR INTAKE

This connection fitting should be connected to the airline hose and air silencer (included.) Ensure that the other end of the air tubing is above the height of the skimmer body.



FOAM COLLECTION CUP

Location where foam and waste product is collected.

COLLECTION CUP DRAIN PORT

Optional 1/4" dia. tubing can be connected to this port to allow waste product to drain into another container.

LEVEL ADJUSTMENT VALVE

This valve can be rotated to adjust the water and foam height within the skimmer.

MICROBUBBLE REDUCING TRAP

This foam trap helps prevent the escape of microbubbles. An optional filter sock can be placed over this trap to eliminate microbubbles entirely.

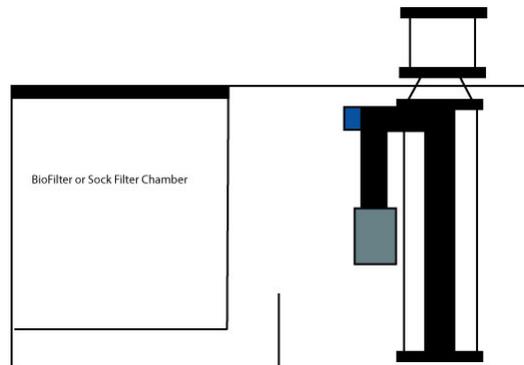
PUMP CONNECTION UNIONS

Ensure that the O-rings are properly seated when connecting the pump to the skimmer body.

SKIMMER INSTALLATION

INSTALLATION

The Fission Recirculating Skimmer is designed for in-sump installation only. Ensure that there is a minimum of ½" clearance from the top of the skimmer for the collection cup. Skimmer requires a minimum footprint of 15" x 9".



Recirculating skimmers are designed for in-sump or installed in Wet/Dry Trickle filters only. They are not designed for external or hang-on-the-back installations.

SUMP INSTALLATION

PLEASE NOTE: The Fission Recirculating Skimmer will require an additional water pump for proper operation. The required water flow rate is 100-350gph. The secondary water flow pump should either be a powerhead, sump pump or water flow that is diverted from the main sump water line. Inlet of the skimmer is a ½" barb fitting and accepts standard ½" flexible hose. Both pump and skimmer connections should be secured with a clamp.

Before Installation:

- Prepare approximately 5-gallons of salt water to replace water used by the Fission Skimmer.
 - Ensure that pump is unplugged from the power source before installation.
 - Allow proper clearance for installation (see above.)
1. The Skimmer water inlet is located on the front of the skimmer (See Diagram pg. 4.) If using a powerhead for secondary water flow, powerhead to skimmer using a piece of 8"-12" flexible ½" diameter tubing (not included). Optionally, the inlet can be attached to a secondary water line that provides a flow rate of approximately 100-350 gph. Ensure that tubing is clamped to inlet and source to avoid leakage.
 2. Place assembled skimmer in desired location. Fill the skimmer with approximately 1 gallon of salt water for stability. The pump can be in or out of the water.
 3. Ensure to attach air inlet silencer to pump intake and place other end of tubing to air silencer. Place air silencer **ABOVE OR LEVEL TO** the skimmer collection cup. It is important not to allow the air silencer or inlet of air inlet tubing to drop below the collection cup level.

SKIMMER OPERATION

SUMP INSTALLATION

4. See diagram below for installation methods:

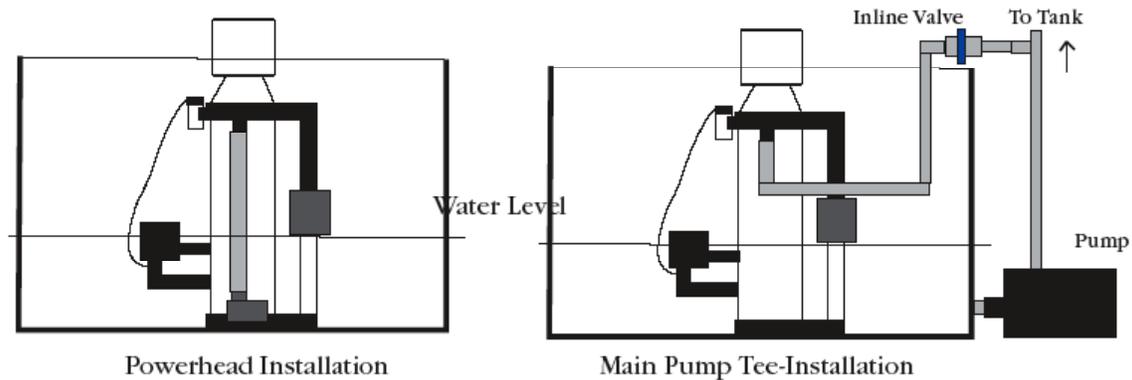


Diagram B

PRE-OPERATION

1. Fill skimmer completely with water and ensure that all fittings are secure and there are no water leaks.
2. Ensure that air inlet silencer tubing is not kinked and above skimmer collection cup level.
3. Check collection cup attachment and ensure collection cup is firmly secured to the top of the skimmer body.
4. Turn blue skimmer level adjustment dial back and forth to loosen seals.

OPERATION

1. Plug recirculating pump and plug powerhead (or main pump) into GFCI power outlet. Inspect for leaks and ensure that both air and water are mixing within the main chamber.
2. Adjust blue skimmer level adjustment dial so that top bubbles right below inner collection cup cone. Allow skimmer to run a minimum of 24-72 hours at this level for proper break-in. Please Note: All skimmers go through a “break-in” period where initial foam collection is considered “wet” foam. Wet foam should be discarded or drained. After the initial break-in period, the “wet” foam will decrease and a sludge like foam will be produced.
3. After break-in period, adjust foam level to approximately $\frac{1}{4}$ " - $\frac{1}{2}$ " inside collection cone. Adjust skimmer foam layer to desired level. A lower microbubble level in the cone will produce a dry, sludge-like foam in small volumes. A higher microbubble level in the cone will produce a larger volume of wet foam. The dry foam froth is usually the preferred method of skimmer operation. Warning: Always ensure that both water pump and recirculating pump are disconnected from the power source when emptying collection cup or cleaning.



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WHAT'S NEXT

MAINTENANCE

MAINTENANCE

Warning: Ensure that the recirculating pump is unplugged and water flow to skimmer is turned off before doing any maintenance.

Daily Maintenance should include the following:

1. Check skimmer for any water leakage. Adjust water level dial to desired level.
2. Observe skimmer operation and ensure pumps are working properly and foam production is occurring.
3. Check collection cup, empty as required.
4. Check air inlet silencer for proper operation, ensure air tubing is not kinked.

Weekly - Rinse bubble reducing sponge and clean of any debris or mineral build-up.

TROUBLESHOOTING

Note: Skimmer operation and foam production levels are affected by many parameters including: water inlet pump flow rate, plumbing configuration, water chemistry, supplements and medications, adding new organisms, feeding levels, top-off water additions, water changes, tank maintenance

PROBLEM

No microbubbles are being produced inside the skimmer body.

Foam production is weak or no foam is being produced.

Recirculating water pump is not working.

Water is over-flowing into the collection cup.

Skimmer water level is fluctuating

CHECK

- a. Check air inlet silencer and ensure that it is not clogged and that airline connection hose is not kinked.
- b. Check paddlewheel venturi injection port for any clogging.
- c. Check to ensure pump is plugged in and operating.

- a. Adjust the water level valve to the appropriate level.
- b. Check and ensure that air is mixing within skimmer body.
- c. If skimmer is new, foam production can take up to 4-5 days.

- a. Check to ensure pump is plugged in.
- b. Drain skimmer and remove recirculating pump. Remove pump elbow inlet by turning counter clock-wise and check paddlewheel impeller for debris.

- a. Water flow from inlet pump is too fast. Slow down water flow.

- a. Ensure water is flowing through both the inlet and outlet ports correctly. Clean microbubble reducing trap for clogging.
- b. Recent water changes, feeding or tank additions may cause fluctuation.



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WHAT'S NEXT

WARRANTY

CURRENT USA, INC. ONE-YEAR LIMITED WARRANTY

Current USA, Inc. warrants this product against defects in materials and workmanship of a period of ONE (1) YEAR from the date of original retail purchase. Light Bulbs carry a 3 month warranty.

Warranty on all Products, including Aquariums, is limited to replacement of the product and does not cover fish loss, personal injury, property loss or direct, incidental or consequential damage arising to the use of this product.

Note: Current-USA, Inc. One-Year Limited Warranty does not cover damage caused by the following: Improper installation, saltwater corrosion, and electrical surges.

If you discover a defect, Current USA, Inc. will, at its option, repair or replace the product at no charge to you, provided you return it during the warranty period. It is required that you present this warranty card and a copy of the bill of sale as proof of original purchase date, in the event the product needs repairs, within the warranty period. Please see your dealer for return options. This warranty applies only to products by or for Current USA, Inc. that can be identified by trade name, or logo affixed to them. Current-USA, Inc. does not warrant any products that are not Current-USA, Inc. products. This warranty does not apply if the product has been damaged by accident, abuse, misuse or misapplication or if the product has been modified without the written permission of Current-USA, Inc.; or if any Current-USA, Inc. logos have been removed or defaced.

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