

SUBCURRENT™

Surface Skimming Filter

Instructions for Model
#8026

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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.

- If the appliance falls into the water, or water drips onto the unit, DON'T reach for it! First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately.
- 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 filter 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 operate filter without water flow to the unit.

SAVE THESE INSTRUCTIONS AND YOUR ORIGINAL RECEIPT

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.

TO REGISTER YOUR PRODUCT - PLEASE VISIT WWW.CURRENT-USA.COM

INTRODUCTION

The Sub-Current In-Tank Filtration is the simplest means of adding the most critical elements of water filtration to a new or existing aquarium without modifications or compromising the aesthetics of the system. The Sub-Current incorporates the 3 main types of filtration- Mechanical, Chemical, and Biological, as well as surface skimming, a crucial aspect of maintaining the health and beauty of both saltwater and freshwater aquaria. The unique compact design of the Sub-Current maximizes the efficiency of the filtration portion while adding vital aeration and circulation to the aquarium.

THE SUB-CURRENT FILTRATION SYSTEM

The Sub-Current supplies 5 fundamental elements of critical filtration for both saltwater and freshwater aquaria.

MECHANICAL FILTRATION - Fish waste, uneaten food, and other debris are immediately removed by a pre-filter before they can break down into harmful ammonia and nitrite.

CHEMICAL FILTRATION - Enclosed carbon media removes dissolved wastes and other contaminants that can affect the health, look and smell of the aquarium. Other forms of chemical media, such as phosphate remover, can be added to the Sub-Current as needed.

BIOLOGICAL FILTRATION - Anaerobic (oxygen consuming) bacteria vital to the maintenance of the nitrogen cycle thrive in the Nano-Ball media pouch included with the Sub-Current. Nitrifying bacteria levels are further enhanced due to the extremely high surface area of the Nano-Balls coupled with the oxygen saturated water cascading into the media section.

SURFACE SKIMMING - A necessary component of any aquarium, water is pulled into the Sub-Current's filtration from the top of the water column, where over 80% of both dissolved and solid wastes accumulate. This action increases the filtration capacity of the Sub-Current, helps remove unsightly surface film, and delivers oxygen rich water into the Sub-Current for superior biological filtration and overall aeration for the entire aquarium.

WATER CIRCULATION - Vital to any aquarium for removal of "dead" areas where solid wastes can accumulate, the circulation provided by the Sub-Current is also beneficial for removing wastes from Coral and plant species and the customizable flexible outlet attachment lets you choose the optimal flow patterns throughout the aquarium.

WHAT THE SUB-CURRENT DOES FOR THE AQUARIUM

The Sub-Current uses a two-tier filter box system to accomplish surface skimming, all necessary filtration, and water circulation. Waste-laden water first enters the Sub-Current through its 7 Square inches of pre-filter grooves, which prevent fish and other tank mates from entering the Sub-Current. The water flows first over a tightly woven pre-filter pad that removes solid wastes and algae that otherwise might reduce the efficiency of the biological filter. The pre-filtered water then flows through a drip plate over the chemical and biological media housed in the filtration chamber. Water then flows through another drip plate into the second tier of the Sub-Current, which houses the return pump. Water is pumped back into the aquarium through a return nozzle with flexible attachments to give you the ability to direct the out-flowing water to the surface for extra surface agitation or behind some live rock to eliminate stagnant areas.



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WHAT'S NEXT

ASSEMBLY

SUBCURRENT COMPONENTS

- A. Filter Box (filtration section)
- B. Filter Box (pump section)
- C. Top Drip Tray
- D. Bottom Drip Tray
- E. Carbon Media Bag
- F. Pre-Filter Pad
- G. Nano-Ball Bag
- H. Suction Cups (6)
- I. Return Pump
- J. Flexible Return Nozzle



CAREFULLY REMOVE THE SUB-CURRENT FROM ITS PACKAGING AND INSPECT ALL COMPONENTS-IF ANY COMPONENTS ARE MISSING OR DAMAGED, PLEASE CONTACT YOUR DEALER IMMEDIATELY.

SUB-CURRENT ASSEMBLY

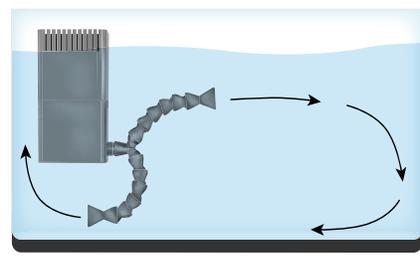
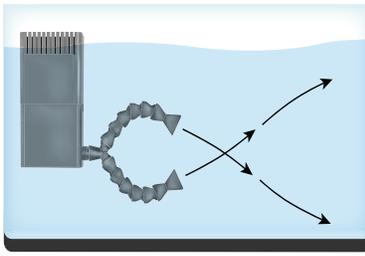
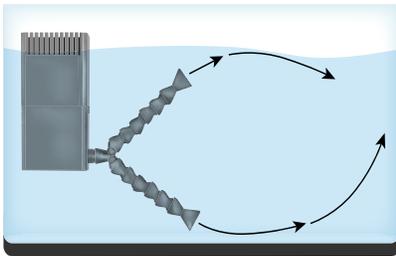
1. The SubCurrent filter should come preassembled, however the media and filter should be rinsed prior to use. Remove the filter pad (F) and top drip (D) tray and remove media from filter. Remove any plastic packaging from carbon media bag and carefully rinse all components in clean water to remove any dust. The carbon media may need to be rinsed more thoroughly to remove carbon dust that may have accumulated during shipping. Allow all components to air dry before continuing with installation.
2. Place carbon media bag (E) over the bottom drip tray (C) in the filter box, followed by the biomedica bag (G). Arrange the top drip tray (part C) so the power cord cutout is facing the back wall of filter box (A) without pre-filter teeth. Run the power cord through the cut out in the drip tray and re-insert top drip tray (D) by placing it into the box at a 45 degree angle rear end first. Re-insert mechanical filter pad (F) onto filter.
3. Using 3 of the suction cups provided (3 extra supplied), insert each cup's base into the holes on the backside of the filter boxes (2 on box A, 1 on box B).
4. Configure flexible nozzle (J) into desired configuration and snap onto bottom portion of filter box (B). The flexible nozzle can be disassembled and configured to provide water flow in different areas of the tanks.

INSTALLATION

NOZZLE CONFIGURATIONS

Short Configuration - this short nozzle configuration is ideal for smaller nano-aquariums where space is limited. To configure, remove the "Y" portion of the nozzle and all but one link before the nozzle.

"Y" Configuration - this nozzle configuration is ideal for most nano-aquariums and allows for a variety of water flow options.



SUB-CURRENT INSTALLATION

The Sub-Current is designed for use in aquariums with or without sump filters. In aquariums without a sump, it should be noted that once the Sub-Current is properly installed, it will become the sump, so the water level inside the Sub-Current will fluctuate with evaporation. When the water level drops down too low inside the Sub-Current, the return pump will shoot air into the aquarium, signaling that top off water should be added as soon as possible to prevent the pump from running dry. Water can be added directly to the tank, which in turn will fill the Sub-Current.

5. The Sub-Current can be installed anywhere in the aquarium near the surface so that the water level flows about halfway up the pre-filter grooves. To install, simply press the wall of the Sub-Current with the suction cups firmly against the wall of the aquarium. It is recommended that you first clean the wall of the aquarium, removing any deposits or algae, so that the suction cups adhere to the wall firmly.
6. Before making your final adjustments to the position of the Sub-Current and the return nozzle, plug the power cord into a GFCI protected outlet, making sure to create a drip loop in the power cord. The pump will begin to push water out of the Sub-Current through the outlet nozzle and water will start to flow into the Sub-Current through the pre-filter grooves.



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WHAT'S NEXT

MAINTENANCE

SUB-CURRENT INSTALLATION

10. Once the Sub-Current is operational, adjust the height of the Sub-Current in the aquarium so that the water level in the aquarium is approximately ½ way up the pre-filter grooves of the Sub-Current. Gently slide the Sub-Current up or down to make this adjustment. An aquarium with a sump filter will have a constant water level in the aquarium, so you can make small adjustments to the height level of the Sub-Current to maximize your surface skimming ability (a water level lower in relation to the pre-filter grooves will have a stronger surface pull). If the aquarium does not have a sump, then position the Sub-Current's height so that when the water level drops due to evaporation or protein skimming the Sub-Current does not run dry (a water level midway or higher in relation to the pre-filter grooves).

MAINTENANCE

The Sub-Current should be inspected daily to ensure that it is functioning normally. Lack of periodic maintenance of the Sub-Current's components will drastically reduce the effectiveness of the Sub-Current and the lifespan of the components. The following is a maintenance schedule that may be used as a guideline. Since each aquarium is different you may need to adjust the schedule to maintain the ideal performance of the Sub-Current. Before performing any maintenance, unplug the power cord from the outlet.

Daily

- Inspect the Sub-Current's position in the aquarium to ensure the water level is where it should be in relation to the pre-filter grooves. Adjust the height of the Sub-Current, makes sure that the suction cups are firmly attached to the wall of the aquarium, and/or add top off water if necessary.
- Clean off any debris such as solid waste, algae, etc. that collects on the pre-filter grooves. This will maximize the ability of the Sub-Current to skim the surface of the aquarium.
- Ensure that water is flow into and out of the Sub-Current's outlet nozzle. If the pump has stopped or is pumping very slowly, refer to the section titled "maintaining the Sub-Current's return pump". If the pump is working, check the pre-filter pad and clean or replace as needed.

Weekly

- Rinse the pre-filter pad in water removed from the aquarium or being used for top off or a water change. Do not rinse the pre-filter pad under tap water as the introduction of chlorine, chloramines and/or phosphates can affect the health of the aquarium. If the pre-filter pad has become saturated with waste or debris so that water does not flow through it easily, it may be necessary to replace it. Ask your dealer about getting replacement Sub-Current pre-filter pads.
- Remove the carbon media bag if being used and rinse in the same manner as you would the pre-filter pad (do not rinse under tap water). It is recommended that you replace the carbon media bag every 3-4 weeks to prevent the pollutants absorbed by the carbon from being released back into the aquarium.
- Do not remove the Nano-Ball biological media bag from the Sub-Current-if you need to remove the Sub-Current from the aquarium, transfer some of the aquarium water to a small container and submerge the Nano-Ball bag to prevent loss of the aerobic nitrifying bacteria that have settled on the Nano-Balls.



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WHAT'S NEXT

TROUBLESHOOTING

SUB-CURRENT MAINTENANCE

Monthly

- Unplug the power cord and remove the Sub-Current from the aquarium, making sure not to lose the suction cups. As recommended in the weekly maintenance, place the Nano-Ball media bag in a small container of transferred aquarium water to prevent loss of the nitrifying bacteria.
- Clean/replace the pre-filter pad and carbon bag as recommended in the weekly maintenance. Remove and clean the return pump according to the instructions under “maintaining the Sub-Current’s return pump”. The filter boxes and drip tray may also be rinsed pad in water removed from the aquarium or being used for top off or a water change, not in tap water.

6 Months

- Unplug and remove filter box from service. Disassemble the filter media, drip trays and remove pump from filter. Remove cover from pump and clean magnet of any dirt, debris or calcium build-up. Re-install pump and filter box.

TROUBLESHOOTING

Most problems with the functionality of the Sub-Current can be attributed to lack of maintenance. Before performing any maintenance or troubleshooting, always unplug the power cord for the Sub-Current from the outlet.

SYMPTOM

Water is not flowing into or out of the Sub-Current, or the water flow is very slow

If the pump has stopped or is pumping very slowly, refer to the section titled “6 Month Maintenance” above.

CAUSE/SOLUTION

If the pump is working, check the pre-filter pad and clean or replace as needed.

SYMPTOM

The Sub-Current is making a loud gurgling sound and/or air is being shot back into the aquarium

CAUSE/SOLUTION

The height of the Sub-Current needs to be adjusted inside the aquarium, water may need to be added to the aquarium, or the filter pad may need to be cleaned or replaced (see maintenance)

SYMPTOM

The Sub-Current is not pulling the film off the surface water of the aquarium.

CAUSE/SOLUTION

The height of the Sub-Current needs to be adjusted inside the aquarium (see step 10) or the filter pad or return pump may need to be cleaned or replaced (see maintenance).

SYMPTOM

The suction cups will no longer adhere to the wall of the aquarium

CAUSE/SOLUTION

Check to make sure the wall of the aquarium is clean and free of deposits and/or algae. Make sure that the suction cups are clean as well. Replacing the suction cups periodically may be necessary (see your local dealer)



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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 and is not transferable.

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: freezing of the evaporator, improper installation, saltwater corrosion, electrical surges, or thermostat failure or modifications.

If you discover a defect, please see your retail store or point of purchase. Current USA, Inc. will, at it's 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 and warranty replacement parts. 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.

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WHAT'S NEXT