

Sobo AQ-903F

Sobo AQ-903F Ultra-Quiet External Canister Filter User Manual

Model: AQ-903F

1. INTRODUCTION

Thank you for choosing the Sobo AQ-903F Ultra-Quiet External Canister Filter. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new aquarium filter. Please read these instructions thoroughly before use to ensure proper function and longevity of the product.



Image 1.1: The Sobo AQ-903F External Canister Filter, shown with two blue filter sponges. This image displays the main

unit of the filter, highlighting its compact design and the included initial filter media.

2. PRODUCT OVERVIEW

2.1 Key Features

- Ultra Strong Filtration:** Utilizes biological and chemical double-layer filtration to effectively remove odors, discoloration, and impurities, maintaining a clean and healthy aquatic environment.
- Adjustable Flow Rate:** Features a flow rate of 1000 L/H, which can be adjusted to suit various aquarium sizes, recommended for tanks up to 55 gallons.
- Super Mute Operation:** Equipped with a copper brushless motor, designed for quiet operation with noise levels at or below 30dB, ensuring minimal disturbance.
- Quick Disassembly and Cleaning:** Engineered for easy installation, disassembly, maintenance, and water changes.
- Oil Film Remover:** Integrated feature for removing surface oil film from the water.
- Multiple Water Outlet Modes:** Offers various water outlet options for different aquarium needs.

2.2 Components and Package Contents

The Sobo AQ-903F filter comes with all necessary components for installation and operation. Please verify all parts are present upon unboxing.

PRODUCT SIZE

1000L



PACKAGE INCLUDES



Weight:	3.4kg	F.MAXX:	264GPH(1000L/H)
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Recommended fish tank size: up to 85 gallon

Image 2.1: Diagram illustrating the dimensions of the Sobo AQ-903F filter (approximately 8" x 8" x 11") and a visual representation of the included package contents, such as inlet/outlet pipes, elbow joints, and various filter media. The package typically includes the main filter unit, inlet and outlet pipes (1.8m length), power cord (1.2m length), elbow joints (17.5mm diameter), and initial filter media.

3. SPECIFICATIONS

Specification	Value
Model	AQ-903F
Power Consumption	11W
Max Flow Rate	1000 L/H (264 GPH)
Suitable Aquarium Capacity	200-320 L (55-85 gallons)
Stages of Filtration	3 (Mechanical, Biological, Chemical)
Power Cord Length	1.2 m
Inlet and Outlet Pipe Length	1.8 m
Noise Level	≤ 30dB
Elbow Joint Diameter	17.5 mm
Dimensions (approx.)	8" x 8" x 11"
Item Weight	1 kg

4. SETUP AND INSTALLATION

Proper installation is crucial for the filter's performance and safety. Follow these steps carefully.

4.1 Placement

- The canister filter must be placed on a flat, stable surface.
- Position the filter 27-39 inches (70-110 cm) below the water level of the aquarium.
- Ensure the interior of the filter is filled with water by pulling the level pumping handle during initial setup.



ADJUSTABLE FLOW RATE

Flow rate can be adjusted with the turn of a button

AIR EVACUATION VALVE

No need to add water, drain the air out of the pump and lift the exhaust valve 2-4 times to supply water to the pump through the siphon principle

OIL FILM REMOVER

Removal of oil film from water surface



adjustable for 55-85 gallon tank

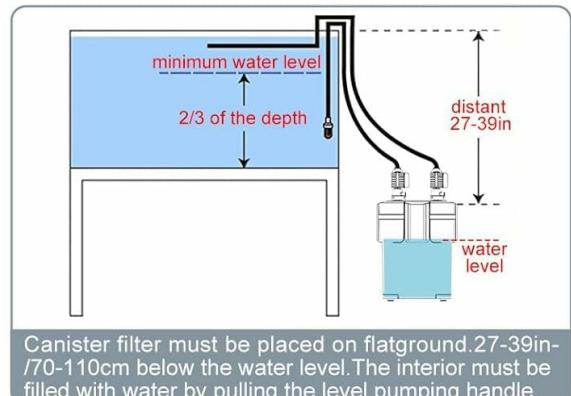


Image 4.1: This diagram illustrates key installation and operational features, including the adjustable flow rate mechanism, the air evacuation valve, the oil film remover, and the recommended placement of the filter relative to the aquarium water level.

4.2 Connecting Hoses and Power

1. Connect the inlet and outlet pipes to the designated ports on the filter head. Ensure all connections are secure to prevent leaks.
2. Position the inlet strainer and outlet nozzle within the aquarium according to your desired water circulation.
3. Once all hoses are connected and the filter is in its final position, connect the power cord to a suitable electrical outlet.

4.3 Priming the Filter (Air Evacuation)

Before starting the filter, it is essential to remove air from the system.

- After connecting the pipes and placing the filter, ensure the filter is below the water level.
- Lift and pull the exhaust valve (priming pump) 2-4 times. This action will draw water into the filter through the siphon principle, expelling air.
- Once water fills the filter and air is discharged, the filter will enter normal working condition. No additional water needs to be added manually.

5. OPERATING INSTRUCTIONS

5.1 Powering On

After successful installation and priming, plug the filter into a power outlet. The filter will begin operating.

5.2 Adjusting Flow Rate

The filter's flow rate can be adjusted to match your aquarium's specific needs.

- Locate the flow rate adjustment mechanism on the filter head (refer to Image 4.1).
- Turn the button or lever to increase or decrease the water flow as desired.

5.3 Utilizing Water Outlet Modes

The filter offers various water outlet options to customize water movement and aeration in your aquarium.



4 TYPES OF WATER OUTLET



Platypus out of water mode



Micro-oxygenation mode



Rain shower mode



Multi-directional infusion mode

Image 5.1: This image displays four different water outlet modes: Platypus out of water mode (surface skimming), Micro-oxygenation mode (aeration), Rain shower mode (gentle water return), and Multi-directional infusion mode (adjustable flow direction).

- **Platypus Out of Water Mode:** Ideal for surface skimming and removing oil film.
- **Micro-Oxygenation Mode:** Provides additional aeration to the water.
- **Rain Shower Mode:** Creates a gentle, dispersed water return, suitable for planted tanks or fish sensitive to strong currents.
- **Multi-Directional Infusion Mode:** Allows for directing water flow in multiple directions.

Select and configure the appropriate outlet attachment based on your aquarium's requirements.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your filter.

6.1 Cleaning the Filter

- 1. Disconnect Power:** Always unplug the filter from the power outlet before performing any maintenance.
- 2. Disconnect Hoses:** Carefully disconnect the inlet and outlet hoses from the filter head.
- 3. Open Filter:** Unclip or unlatch the filter head to access the filter media baskets.
- 4. Clean Media:** Rinse mechanical filter media (sponges, pads) in old aquarium water to preserve beneficial bacteria. Replace heavily soiled mechanical media.
- 5. Inspect Biological/Chemical Media:** Biological media (e.g., ceramic rings) should only be rinsed gently if clogged. Chemical media (e.g., activated carbon) should be replaced according to manufacturer recommendations, typically every 2-4 weeks.
- 6. Clean Impeller:** Remove and clean the impeller and its housing to ensure smooth operation.
- 7. Reassemble:** Reassemble the filter in reverse order, ensuring all seals are properly seated to prevent leaks.
- 8. Restart:** Reconnect hoses, prime the filter as described in Section 4.3, and plug it back in.

Layers Of Filtration, Deep Purification Of Aquarium Water Quality

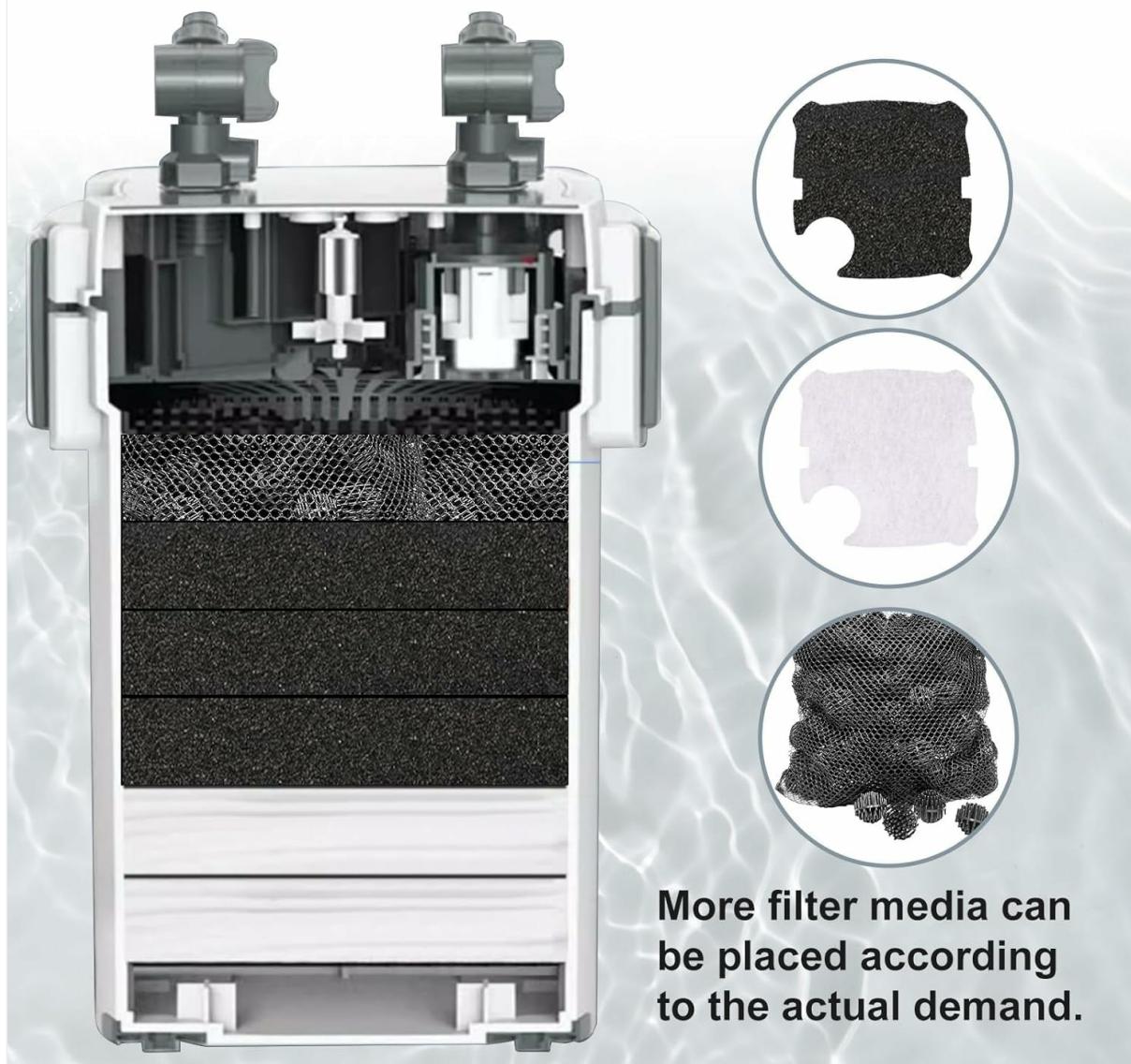


Image 6.1: Cross-section view of the Sobo AQ-903F filter, showing the multiple layers of filtration media. This illustrates how different types of media (sponges, carbon, bio-balls) are stacked for comprehensive water purification.

Different filter materials can be freely changed according to the needs of the aquarium. Ensure to use appropriate media for mechanical, biological, and chemical filtration.

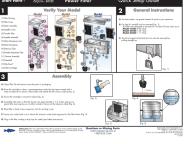
7. TROUBLESHOOTING

This section addresses common issues you might encounter with your filter.

Problem	Possible Cause	Solution
Filter not starting / No flow	<ul style="list-style-type: none">Power not connectedAir in the systemImpeller jammed or dirtyClogged intake	<ul style="list-style-type: none">Check power connection.Re-prime the filter using the exhaust valve (Section 4.3).Clean the impeller and its housing (Section 6.1).Clear any blockages in the intake strainer or hose.
Reduced flow rate	<ul style="list-style-type: none">Clogged filter mediaDirty impellerKinked hosesFlow rate adjustment set too low	<ul style="list-style-type: none">Clean or replace filter media (Section 6.1).Clean the impeller.Straighten any kinks in the hoses.Adjust the flow rate setting (Section 5.2).
Leaking	<ul style="list-style-type: none">Improperly sealed filter headDamaged O-ring or gasketLoose hose connections	<ul style="list-style-type: none">Ensure the filter head is securely latched.Inspect and replace any damaged O-rings or gaskets.Tighten all hose connections.
Excessive noise	<ul style="list-style-type: none">Air trapped in the filterDirty or damaged impellerFilter not on a stable surface	<ul style="list-style-type: none">Re-prime the filter to remove air (Section 4.3).Clean or replace the impeller.Ensure the filter is on a flat, stable surface with anti-slip pads.

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided at the point of purchase or contact your retailer. Keep your proof of purchase for warranty claims.

	<p><u>Aqua-Tech Ultra Quiet Power Filter User Guide and Safety Instructions</u></p> <p>Comprehensive guide for the Aqua-Tech Ultra Quiet Power Filter, including important safety precautions, troubleshooting tips, parts identification, and warranty information. Covers models for 10-20, 20-40, and 30-60 gallon aquariums.</p>
	<p><u>AQUA-Tech Power Filter Quick Setup Guide</u></p> <p>Quick setup and assembly guide for AQUA-Tech Power Filters (Models 10-20, 20-40, 30-60). Includes parts identification, general instructions, assembly steps, and advice on adding fish to your aquarium. Features detailed textual descriptions of diagrams.</p>
	<p><u>Aquasana Rhino WH-1000 Whole House Water Filter Owner's Manual and Installation Guide</u></p> <p>Comprehensive guide for installing, maintaining, and troubleshooting the Aquasana Rhino WH-1000 whole house water filter system. Learn about system components, filter replacement, specifications, warranty information, and the Water for Life program.</p>
	<p><u>Aquasana Shower Filter: Owner's Manual for Clean, Healthy Water</u></p> <p>Comprehensive owner's manual for Aquasana Shower Filters, covering installation, use, care, warranty, and performance specifications. Learn how to enjoy clean, healthy water with Aquasana's filtration technology.</p>
	<p><u>Aquasana Whole House UV Filter Owner's Manual & Installation Guide (AQ-UV-10C, AQ-UV-15C)</u></p> <p>Comprehensive owner's manual and installation guide for Aquasana AQ-UV-10C and AQ-UV-15C Whole House UV Filters. Learn about setup, operation, maintenance, specifications, and warranty.</p>
	<p><u>Aquasana Clean Water Machine AQ-CWM2-B Owner's Manual</u></p> <p>Owner's manual for the Aquasana Clean Water Machine (AQ-CWM2-B) countertop water filter. Provides instructions on setup, use, care, filter replacement, troubleshooting, and warranty information.</p>