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› Jainsons Pet Products Sobo AQ Series External Canister Filter User Manual

## JAINSONS PET PRODUCTS AQ-901F

# Jainsons Pet Products Sobo AQ Series External Canister Filter User Manual

Model: AQ-901F (10W, 800L/H)

## INTRODUCTION

Thank you for choosing the Jainsons Pet Products Sobo AQ Series External Canister Filter. This filter is designed to provide superior mechanical, chemical, and biological filtration for both freshwater and marine aquariums, ensuring a clean and healthy aquatic environment. Its ultra-quiet operation and adjustable flow rate make it an ideal choice for various tank sizes.

This manual provides detailed instructions for the proper setup, operation, maintenance, and troubleshooting of your Sobo AQ Series external canister filter. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of your product.

## SAFETY INFORMATION

- Always disconnect power to all aquarium equipment before performing any maintenance or handling the filter.
- Ensure your hands are dry before plugging or unplugging the filter from the power outlet.
- Do not operate the filter if the power cord or plug is damaged.
- This filter is designed for indoor use only and should not be exposed to water splashes or rain.
- Ensure the filter is placed on a stable, level surface, below the aquarium water level as specified.
- Keep out of reach of children.

## PRODUCT OVERVIEW

The Sobo AQ Series External Canister Filter is a comprehensive filtration system designed for efficiency and ease of use. It features a robust design with multiple filtration stages.



Figure 1: Sobo AQ Series External Canister Filter with included filter sponges.

The filter unit includes an inlet and outlet hose connection, a motor head, filter media baskets, and a robust canister body. It is engineered for mechanical, chemical, and biological filtration, all within one integrated system.

# EXTERNAL FILTER

- Mechanical, chemical, biological filtration system
- Ideal for freshwater & marine aquariums
- It is easy to clean the filter screen.



Figure 2: Key features of the Sobo AQ Series External Filter, highlighting its comprehensive filtration capabilities.

## SETUP AND INSTALLATION

1. **Unpacking:** Carefully remove all components from the packaging. Check for any damage during transit.
2. **Filter Media Preparation:** Rinse all filter media (sponges, ceramic rings, carbon, etc.) thoroughly under clean water before placing them into the filter baskets. Arrange media according to the manufacturer's recommendations for optimal flow and filtration.
3. **Assembly:** Securely attach the motor head to the canister body, ensuring a tight seal. Connect the inlet and outlet hose adapters to the motor head.
4. **Hose Connection:** Connect the inlet hose from the aquarium intake strainer to the filter's inlet. Connect the outlet hose from the filter's outlet to the aquarium's return nozzle. Ensure all connections are secure to prevent leaks.
5. **Filter Placement:** The canister filter must be placed on a flat, stable surface. For proper operation, it should be positioned 27-39 inches (70-110 cm) below the water level of the aquarium. This ensures adequate water flow and priming.

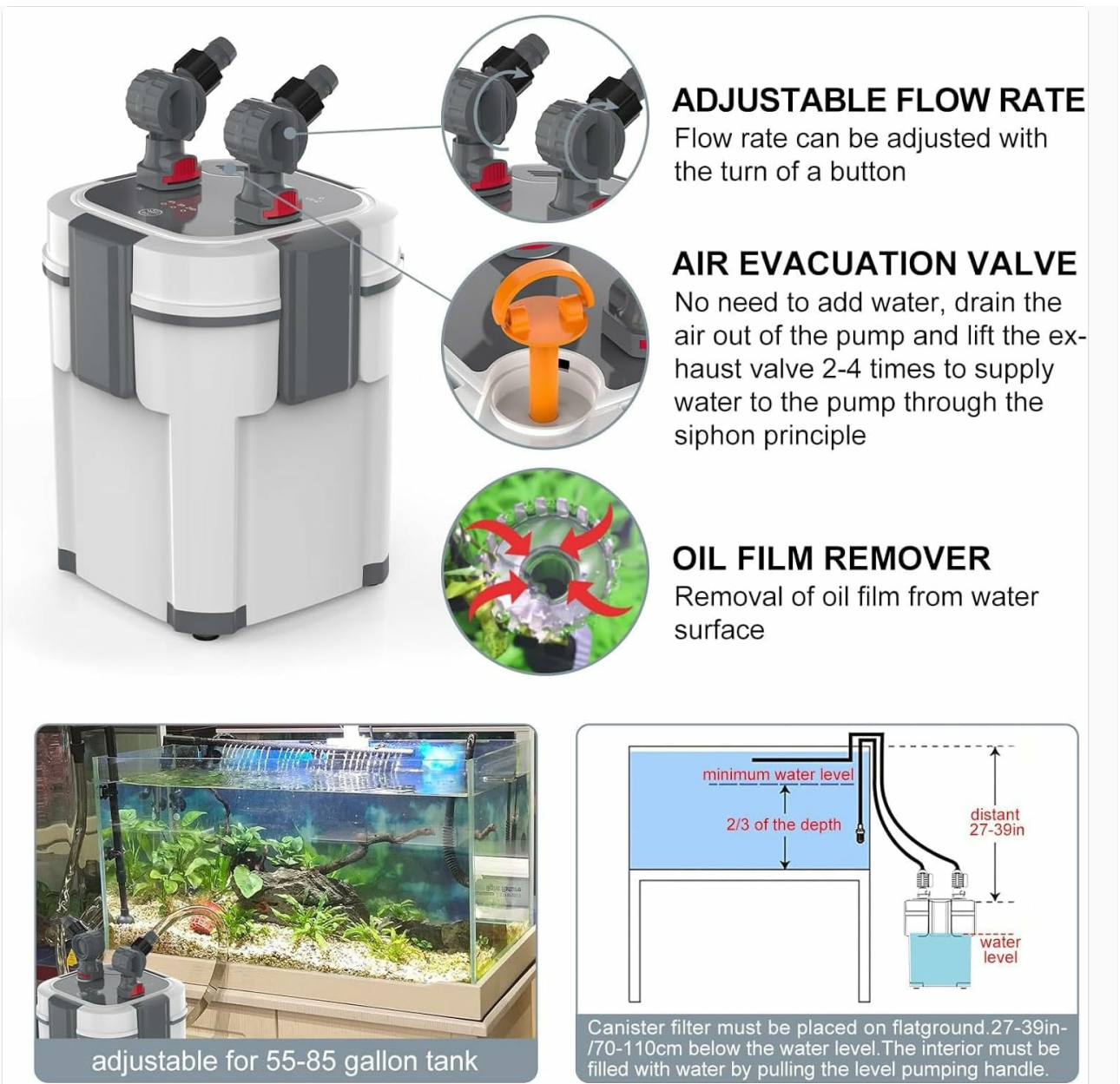


Figure 3: Proper filter placement relative to the aquarium water level and details of adjustable flow and air evacuation.

- 6. Priming the Filter:** Once all hoses are connected and the filter is positioned, ensure the filter is filled with water. After energizing the unit, the air in the pump will be discharged. To assist with priming and ensure proper water supply to the pump, lift and pull the exhaust valve (air evacuation valve) 2-4 times. This action utilizes the siphon principle to draw water into the filter, allowing it to enter normal working condition without needing to add extra water manually.

## OPERATING INSTRUCTIONS

The Sobo AQ Series filter is designed for efficient and quiet operation.

- Power On:** After successful setup and priming, plug the filter into a suitable power outlet. The filter should begin operating, circulating water through the system.
- Adjustable Flow Rate:** The filter features an adjustable flow rate mechanism, allowing you to control the water flow based on your aquarium's specific needs and size. The flow rate can be adjusted by turning the designated knob on the filter head. The AQ-901F model operates at a flow rate of 800L/H.
- Ultra-Quiet Operation:** The external aquarium filter incorporates a built-in copper brushless motor, designed for long service life and minimal noise. With no air inside the filter during operation, it generates very low noise, typically  $\leq 30\text{dB}$ , ensuring a peaceful environment.

# ULTRA-QUIET OPERATION

Without air inside the filter, generates no noise The sound is < 30db

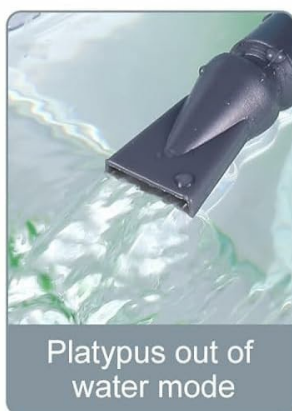


Figure 4: Illustration of the filter's ultra-quiet operation, with noise levels below 30dB.

- **Water Outlet Types:** The filter supports various water outlet modes to suit different aquarium setups and preferences. These include:
  - *Platypus out of water mode:* For general water return.
  - *Micro-oxygenation mode:* Introduces small bubbles for increased oxygenation.
  - *Rain shower mode:* Creates a gentle rain effect for surface agitation and oxygen exchange.
  - *Multi-directional infusion mode:* Allows for flexible water flow direction.



## 4 TYPES OF WATER OUTLET



Platypus out of water mode



Micro-oxygenation mode



Rain shower mode



Multi-directional infusion mode

Figure 5: Different water outlet options for customized aquarium flow.

## MAINTENANCE

Regular maintenance is crucial for the optimal performance and longevity of your external canister filter. The filter is designed for quick disassembly and cleaning.

### 1. Disassembly and Cleaning:

- Disconnect the filter from the power supply.
- Close the inlet and outlet valves (if applicable) and disconnect the hoses from the filter head.
- Carefully unclip the motor head from the canister body.
- Remove the filter media baskets. Rinse mechanical filter media (sponges) thoroughly in old aquarium water to preserve beneficial bacteria. Replace chemical media (e.g., activated carbon) as recommended by the media manufacturer. Biological media should only be gently rinsed if heavily clogged.
- Clean the inside of the canister body and the impeller chamber of the motor head.
- Inspect and clean the O-ring seal on the motor head. Apply a thin layer of silicone grease if necessary to maintain a waterproof seal.

2. **Oil Film Remover:** The filter system includes an oil film remover feature to address surface oil film, which can

hinder gas exchange. Regularly clean the oil film remover intake to ensure its effectiveness.

3. **Reassembly:** Reassemble the filter in reverse order, ensuring all components are securely in place and the motor head is properly sealed to the canister body. Reconnect hoses and open valves before restoring power.

## TROUBLESHOOTING

If you encounter issues with your Sobo AQ Series filter, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Filter not starting or low flow	<ul style="list-style-type: none"><li>• Not plugged in or no power</li><li>• Air trapped in filter/hoses</li><li>• Clogged intake strainer or hoses</li><li>• Impeller jammed or dirty</li><li>• Filter not primed correctly</li></ul>	<ul style="list-style-type: none"><li>• Check power connection and outlet.</li><li>• Perform air evacuation using the exhaust valve (pull 2-4 times).</li><li>• Clean intake strainer and hoses.</li><li>• Disassemble motor head and clean impeller.</li><li>• Ensure filter is filled with water and re-prime.</li></ul>
Excessive Noise	<ul style="list-style-type: none"><li>• Air trapped inside filter</li><li>• Impeller dirty or damaged</li><li>• Filter not level or vibrating against surface</li></ul>	<ul style="list-style-type: none"><li>• Perform air evacuation using the exhaust valve.</li><li>• Clean or replace impeller.</li><li>• Ensure filter is on a stable, level surface. Use anti-slip/shock-absorbing pads if needed.</li></ul>
Water Leakage	<ul style="list-style-type: none"><li>• Improperly sealed motor head</li><li>• Damaged or dirty O-ring</li><li>• Loose hose connections</li></ul>	<ul style="list-style-type: none"><li>• Ensure motor head is securely clipped to canister.</li><li>• Inspect O-ring for damage or debris; clean and re-seat, or replace if damaged.</li><li>• Tighten all hose connections.</li></ul>
Poor Filtration/Cloudy Water	<ul style="list-style-type: none"><li>• Clogged filter media</li><li>• Incorrect filter media setup</li><li>• Filter too small for tank size</li></ul>	<ul style="list-style-type: none"><li>• Clean or replace filter media.</li><li>• Review manual for proper media layering.</li><li>• Ensure filter flow rate is adequate for your tank volume.</li><li>• Ensure filter flow rate is adequate for your tank volume.</li></ul>

## SPECIFICATIONS

The following table provides detailed specifications for the Sobo AQ Series External Canister Filters, including the AQ-901F model.



MODEL	VOLTAGE	FREQUENCY	UV WATT	PUMP WATT	F.MAX
AQ-901F	220V-240V	50/60Hz	/	10W	800L/H
AQ-903F	220V-240V	50/60Hz	/	11W	1000L/H
AQ-905F	220V-240V	50/60Hz	/	12W	1200L/H
AQ-907F	220V-240V	50/60Hz	/	15W	1500L/H
AQ-909F	220V-240V	50/60Hz	/	18W	1800L/H
AQ-911F	220V-240V	50/60Hz	/	20W	2000L/H
AQ-913F	220V-240V	50/60Hz	/	25W	2500L/H
AQ-901F-UV	220V-240V	50/60Hz	7W	10W	800L/H
AQ-903F-UV	220V-240V	50/60Hz	9W	11W	1000L/H
AQ-905F-UV	220V-240V	50/60Hz	9W	12W	1200L/H
AQ-907F-UV	220V-240V	50/60Hz	9W	15W	1500L/H
AQ-909F-UV	220V-240V	50/60Hz	9W	18W	1800L/H
AQ-911F-UV	220V-240V	50/60Hz	9W	20W	2000L/H
AQ-913F-UV	220V-240V	50/60Hz	9W	25W	2500L/H

Figure 6: Detailed specifications for Sobo AQ Series External Canister Filter models.

Specification	Detail
Model	AQ-901F
Power Consumption	10W
Flow Rate (F.MAX)	800 L/H
Voltage	220V-240V
Frequency	50/60Hz
UV Watt	N/A (for AQ-901F)
Product Dimensions	20 x 20 x 27 cm
Item Weight	3.4 kg
Country of Origin	China

## WARRANTY AND SUPPORT

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For warranty information or technical support, please contact Jainsons Pet Products directly. Ensure you have your product model number (AQ-901F) and purchase details ready when contacting support.

**Manufacturer Contact:** Jainsons Pet Products, PH: 8459684438

**Importer/Packer:** Jainsons E-62 Sector-7 Noida

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