VILLNO MB-403

VILLNO 5W Hang-on Aquarium Filter MB-403 User Manual

Model: MB-403

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your VILLNO 5W Hang-on Aquarium Filter, model MB-403. This filter is designed for 5-15 gallon fish tanks, offering efficient filtration, circulation, and oxygenation to maintain a healthy aquatic environment. Please read this manual thoroughly before use to ensure proper function and longevity of your product.

2. Product Features

- **Ultra-Quiet Operation:** Designed with a low-noise motor, ensuring minimal disturbance to you and your aquatic life.
- **Adjustable Water Flow:** Easily control the water flow rate to suit your tank's needs.
- **3-in-1 Functionality:** Provides mechanical filtration, water circulation, and oxygenation.
- **Efficient Filtration System:** Includes a filter sponge for mechanical filtration and activated carbon for chemical filtration, with a large filter box for customizable media.
- **Surface Skimmer:** Equipped with an oil film valve to remove surface film and debris.
- **Adjustable Water Intake:** Features two water intake lengths to accommodate various tank depths.
- **Automatic Restart:** Designed to automatically restart after a power outage.



Image: Illustration of the filter's 3-in-1 functions: oxygenation, circulation, and filtration.

3. Package Contents

Upon opening the package, please verify that all components are present and undamaged:

- VILLNO Hang-on Aquarium Filter Unit (MB-403)
- Filter Sponge
- Activated Carbon Bag
- Adjustable Water Intake Tube (with two length options)
- Oil Film Valve
- Balance Cap



Image: Detailed view of filter components including oil film valve, water intake, sponge, and activated carbon.

4. Specifications

Specification	Detail
Model	MB-403
Power	5W
Voltage	110-120V / 60Hz
Maximum Flow Rate	124 GPH (Gallons Per Hour)
Recommended Tank Size	5-15 Gallons
Filter Box Quantity	1
Dimensions (LxWxH)	5.9 x 2.2 x 10.7 inches

Item Weight	1.41 pounds
Suitable for Frame Thickness	Within 1.2 inches



Model	Power	Voltage	Max Flow	Recommend Tank	Filter Box
MB-403	5W	110-120V /60Hz	124GPH	5-15Gal	1
MB-404	5W		124GPH	10-25Gal	2
MB-405	7W		177GPH	15-40Gal	3

Image: Dimensional diagram of VILLNO hang-on filters, including MB-403.

5. Safety Instructions

- Always unplug the filter from the power outlet before performing any maintenance, cleaning, or when handling the filter.
- Ensure your hands are dry when plugging or unplugging the filter.
- Do not operate the filter if the power cord or plug is damaged.
- This appliance is intended for indoor use only and for filtering water in aquariums.
- Keep out of reach of children.
- Ensure the filter is securely mounted on the aquarium before operation.
- Never run the filter dry. Always ensure the filter box is filled with water before plugging it in.

6. Setup and Installation

Follow these steps to properly install your VILLNO Hang-on Aquarium Filter:

1. **Assemble Water Intake:** Attach the appropriate length of the water intake tube to the filter unit. The longer tube is suitable for deeper tanks, while the shorter one is for shallower tanks. Ensure the dense sponge is attached to the bottom of the intake tube to prevent small fish from being sucked in.
2. **Install Oil Film Valve:** If desired, attach the oil film valve to the top of the water intake tube. This component helps remove surface film.
3. **Place Filter Media:** Insert the filter sponge and activated carbon bag into the filter box. You can also customize with other filtering materials as needed.
4. **Mount on Tank:** Hang the filter unit securely on the back or side of your aquarium. Ensure the filter is level and stable. The balance cap can be adjusted to reduce vibration against the tank. The filter is suitable for tanks with a frame thickness of up to 1.2 inches.
5. **Prime the Filter: Crucially, before plugging in the power, fill the filter box with aquarium water.** This primes the pump and prevents dry running, which can damage the motor.
6. **Connect Power:** Once the filter box is filled with water, plug the power cord into a suitable electrical outlet.
7. **Adjust Water Flow:** Rotate the knob on the top of the filter to adjust the water flow rate to your desired level.



Image: Installation details including adjustable water flow, water intake options, and balance cap.



Image: Demonstrating how to fill the filter box with water for priming.

7. Operating Instructions

Once installed and primed, the VILLNO Hang-on Aquarium Filter operates continuously to maintain water quality.

- **Continuous Operation:** The filter is designed for continuous operation. Ensure it is always submerged in water when running.
- **Adjusting Flow:** Use the flow control knob on the top of the filter to increase or decrease the water flow. A gentle waterfall effect is normal and contributes to oxygenation.
- **Monitoring Surface Skimmer:** Periodically check the oil film valve for proper rotation and ensure it is effectively removing surface film.
- **Power Outage:** In case of a power outage, the filter is designed to automatically restart once power is restored, provided it remains primed with water.



Image: The filter in operation, highlighting its quiet performance.

8. Maintenance

Regular maintenance is crucial for the optimal performance and longevity of your filter.

1. **Unplug First:** Always unplug the filter from the power outlet before beginning any maintenance.
2. **Clean Filter Sponge:** Remove the filter sponge and rinse it thoroughly with old aquarium water (not tap water, to preserve beneficial bacteria). Replace the sponge if it is heavily clogged or deteriorated.
3. **Replace Activated Carbon:** Activated carbon typically needs to be replaced every 2-4 weeks, as its adsorptive capacity diminishes over time. Do not rinse and reuse activated carbon.
4. **Clean Impeller:** Periodically remove the motor unit and clean the impeller and its housing. Debris can accumulate here and reduce performance or cause noise.
5. **Clean Intake Tube and Skimmer:** Remove and clean the water intake tube and oil film valve to ensure unobstructed water flow.
6. **Reassemble and Prime:** After cleaning, reassemble all components. Remember to fill the filter box with aquarium water before plugging it back in.

9. Troubleshooting

Problem	Possible Cause	Solution
Filter not starting or weak flow	• Not primed (air in pump) • Impeller clogged or damaged • Intake tube or filter media clogged • Power not connected	• Fill filter box with water before plugging in. • Unplug, remove motor, clean impeller and housing. • Clean intake tube and replace/rinse filter media. • Check power connection.
Excessive noise	• Impeller clogged or worn • Air in the pump • Filter not level or vibrating against tank	• Clean or replace impeller. • Ensure filter is properly primed with water. • Adjust filter position, ensure balance cap is correctly placed.
Poor water clarity	• Clogged filter media • Ineffective filter media • Tank is overstocked or overfed	• Clean or replace filter sponge and activated carbon. • Consider adding additional biological media. • Reduce feeding, perform water changes.
Oil film on water surface	• Oil film valve clogged or not installed • Excessive organic waste	• Clean the oil film valve and ensure it rotates freely. • Ensure the oil film valve is correctly positioned. • Perform water changes and reduce feeding.

10. Warranty Information

The VILLNO 5W Hang-on Aquarium Filter (MB-403) comes with a**1 Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, neglect, improper installation, accidents, or unauthorized repairs. Please retain your proof of purchase for warranty claims.

11. Customer Support

For any questions, concerns, or technical assistance regarding your VILLNO aquarium filter, please contact our customer support team.

Brand: VILLNO

Manufacturer: Ibay

Online Store: Visit the VILLNO Store on Amazon

Please refer to your purchase platform for direct contact methods or support channels.

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