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VAYINATO AQ-18H

VAYINATO SOBO AQ-18H External Wall-Mounted Waterfall Filter User Manual

Model: AQ-18H

1. Product Overview

The VAYINATO SOBO AQ-18H is a compact external wall-mounted waterfall filter designed for aquariums. It provides strong, efficient filtration while occupying minimal space, making it suitable for various tank sizes, including 10, 20, and 30-gallon fish tanks. This 3-in-1 system integrates filtering, water circulation, and oxygenation functions to maintain a clean and stable aquatic environment.
Key features include:

- **Multi-Layer Filtration System:** Features multiple chambers for efficient cycling and removal of impurities, ensuring clear water.
- **Waterfall Oxygenation:** A waterwheel design enhances oxygen levels in the tank, crucial for fish health.
- **Silent Operation:** Equipped with a noiseless water pump for quiet performance, suitable for bedrooms or offices.
- **Transparent and Durable Design:** Made from thick transparent acrylic, allowing observation of filter conditions and ensuring longevity.
- **Dust and Splash Protection:** Includes a dust cover to prevent debris entry and water splashing.



Figure 1: VAYINATO SOBO AQ-18H External Wall-Mounted Waterfall Filter.

2. Package Contents

Please check the package for the following items:

- Filter Unit (AQ-18H)
- Water Pump
- Filter Media (Filter ball 200g, Ceramic ring 100g)
- Sponge (3 pieces)
- Water Pipe (50cm)

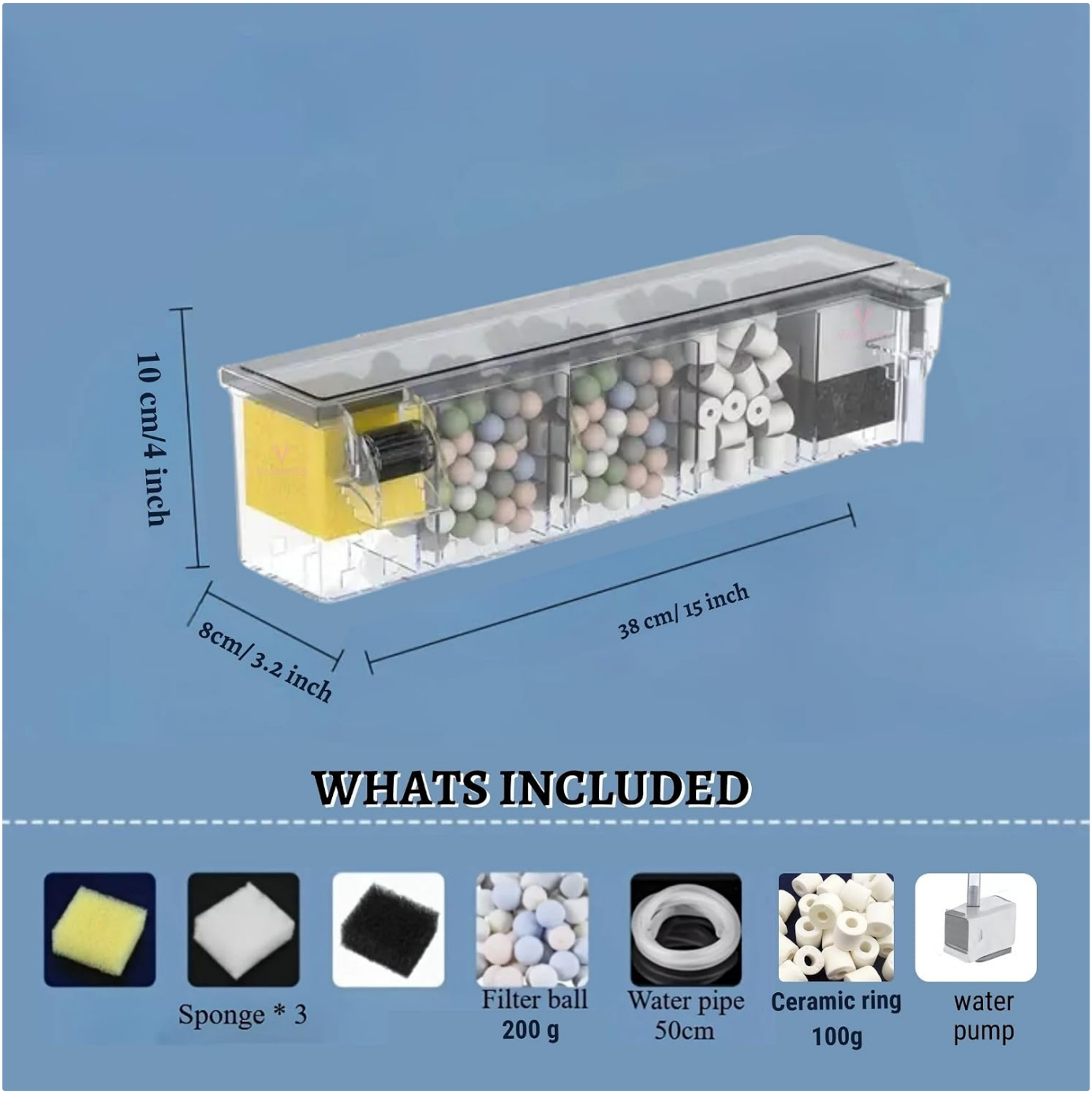


Figure 2: Visual representation of included components and filter dimensions (38cm/15inch length, 8cm/3.2inch width, 10cm/4inch height).

3. Specifications

Brand	VAYINATO
Model Number	AQ-18H
Material	Acrylic
Power	6W
Flow Rate	500 L/Hr
Product Dimensions (L x W x H)	38 x 8 x 10 Centimeters
Item Weight	0.1 Grams

Vivarium Type	Aquarium
Target Species	Fish
Tank Volume (Recommended)	Up to 20 Litres (Also suitable for 10, 20, 30 gallon tanks as per description)

4. Safety Instructions

Please read and follow these safety instructions carefully to prevent injury or damage:

- Always unplug the filter from the power outlet before performing any maintenance, cleaning, or when handling the filter or pump.
- Ensure your hands are dry when plugging or unplugging the power cord.
- Do not operate the filter if the power cord or plug is damaged.
- This appliance is for indoor use only. Do not use it in outdoor environments.
- Ensure the filter is securely mounted on the aquarium before operation.
- Keep out of reach of children.
- Do not allow the pump to run dry without water, as this can cause damage.
- The filter is suitable for fish tanks or aquariums with no rims, and the thickness of the fish tank should not exceed 12mm.

5. Setup and Installation

Follow these steps to set up and install your VAYINATO SOBO AQ-18H filter:

1. **Unpack Components:** Carefully remove all items from the packaging and verify against the 'Package Contents' list.
2. **Assemble Filter Media:** Place the filter sponges, filter balls, and ceramic rings into their respective compartments within the filter unit. Refer to Figure 3 for guidance on the multi-layer filtration system.
3. **Connect Water Pump:** Attach the water pipe to the water pump. Ensure a secure connection.
4. **Position Pump:** Place the water pump inside the aquarium, ensuring it is fully submerged. The pump typically attaches to the inside wall of the tank with suction cups.
5. **Mount Filter Unit:** Hang the main filter unit on the rim of your aquarium. Ensure it is stable and level. The filter is designed for rimless tanks or tanks with a rim thickness not exceeding 12mm.
6. **Connect Water Pipe:** Route the water pipe from the submerged pump to the inlet of the filter unit. Ensure the pipe is not kinked and allows for smooth water flow.
7. **Fill Aquarium:** Ensure your aquarium is filled with water to the appropriate level, covering the water pump and allowing the filter to draw water effectively.
8. **Power On:** Once all connections are secure and the pump is submerged, plug the filter into a suitable power outlet. The filter should begin operating, drawing water from the tank, passing it through the media, and returning it via the waterfall outlet.



Figure 3: Demonstrates the assembly and placement of the filter unit and pump on an aquarium.



Figure 4: Diagram illustrating the 4-stage filtration process: 1st stage filters fish feces and food scraps, 2nd stage filters fine impurities, 3rd stage fosters beneficial bacteria for nitrification, and 4th stage's water storage design allows nitrifying bacteria to survive longer.

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Video 1: A short demonstration of the VAYINATO SOBO AQ-18H filter's installation process and operation, including placing filter media, connecting the pump, and observing the waterfall effect.

6. Operation

Once installed and powered on, the filter will continuously draw water from the aquarium, process it through the multi-layer media, and return clean, oxygenated water via the waterfall outlet.

- **Water Flow:** The filter creates a waterfall effect, which aids in surface agitation and oxygen exchange.
- **Oxygenation:** The integrated water roller enhances oxygen dissolution into the water, benefiting aquatic life.
- **Lid Function:** Keep the lid closed during operation to prevent dust from entering the filter and to minimize water splashing, which also helps prevent mosquito breeding.

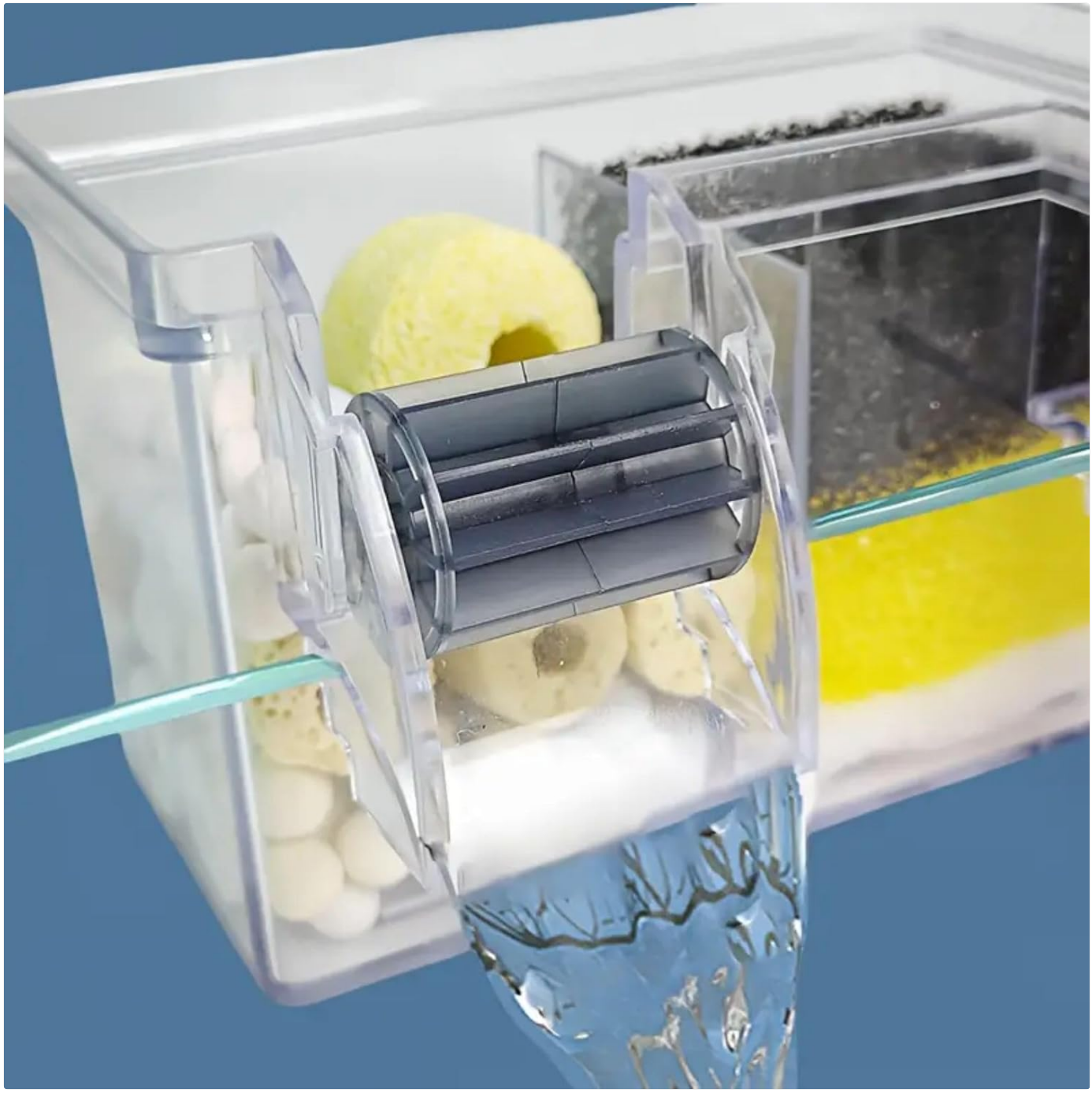


Figure 5: Close-up view of the water roller mechanism, demonstrating its role in enhancing oxygenation as water flows out.

7. Maintenance

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

1. **Weekly Check:** Visually inspect the filter for any blockages or reduced water flow. Ensure the water pump is operating correctly.
2. **Filter Media Cleaning/Replacement (Monthly/Bi-monthly):**
    - Unplug the filter from the power outlet.
    - Carefully remove the filter unit from the aquarium.
    - Open the lid and remove the filter media (sponges, ceramic rings, filter balls).
    - Rinse the sponges and other media in old aquarium water (removed during a water change) to preserve beneficial bacteria. Do not use tap water directly, as chlorine can kill beneficial bacteria.
    - Replace heavily soiled or degraded filter media as needed.

- Clean the inside of the filter unit with a soft brush and aquarium water.
- Reassemble the filter media and unit, then reinstall on the aquarium.

3. **Water Pump Cleaning (Quarterly):**
    - Unplug the filter and remove the pump from the aquarium.
    - Disassemble the pump impeller cover and impeller.
    - Clean any debris, algae, or mineral buildup from the impeller and its housing using a small brush.
    - Reassemble the pump and reinstall it in the aquarium.
4. **Lid Cleaning:** Periodically wipe down the dust cover to keep it clean and effective in preventing debris and splashes.



Figure 6: The filter's lid, which helps prevent dust accumulation and water splashing, contributing to a cleaner environment and deterring mosquito breeding.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Filter not starting or no water flow	◦ Power not connected ◦ Pump impeller clogged ◦ Water level too low ◦ Air lock in pump/pipe	◦ Check power plug and outlet ◦ Clean pump impeller (refer to Maintenance) ◦ Ensure water level covers the pump ◦ Gently shake the pump to release trapped air
Reduced water flow	◦ Filter media clogged ◦ Pump partially clogged ◦ Water pipe kinked	◦ Clean or replace filter media (refer to Maintenance) ◦ Clean pump impeller ◦ Straighten water pipe
Excessive noise	◦ Pump impeller dirty or damaged ◦ Filter unit not stable ◦ Air trapped in pump	◦ Clean pump impeller; replace if damaged ◦ Ensure filter unit is securely mounted ◦ Gently shake pump to release air
Water still cloudy	◦ Insufficient filtration ◦ Overfeeding fish ◦ New tank syndrome	◦ Ensure filter media is clean and correctly installed ◦ Reduce feeding amounts ◦ Perform partial water changes; allow beneficial bacteria to establish

9. Warranty and Support

VAYINATO products are manufactured to high-quality standards. For warranty information, please refer to the terms and conditions provided at the point of purchase or contact your retailer. If you require technical assistance or have questions not covered in this manual, please contact VAYINATO customer support through their official channels or your product retailer.

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