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## hygger hg009

# hygger Submersible Aquarium Power Filter 80 GPH User Manual

Model: hg009

## Introduction

Thank you for choosing the hygger Submersible Aquarium Power Filter. This internal filter is designed to provide efficient 3-stage filtration for 3-10 gallon fish tanks, ensuring clear water and a healthy aquatic environment. This manual provides detailed instructions for proper installation, operation, maintenance, and troubleshooting to help you get the most out of your filter.

## Important Safety Instructions

- Read all instructions before using this appliance.
- This product is intended for use by adults 18 years and older.
- Only applicable for pet water filtration in aquariums. Do not use for any other purpose.
- Ensure the power cord is not damaged before use. Do not operate if the cord or plug is damaged.
- Always unplug the filter from the power outlet before performing any maintenance, cleaning, or when handling the filter.
- Do not operate the filter dry. Ensure it is fully submerged to the minimum water level line before plugging it in.
- Keep the filter away from children and pets to prevent accidents.
- If the appliance falls into water, do not reach for it. First, unplug it and then retrieve it.

## Package Contents

Verify that all items are present and in good condition upon opening the package:

- hygger Submersible Aquarium Power Filter (Model hg009)
- Spray Bar Outlet
- Flat Nozzle Outlet
- Air Tubing with Air Flow Adjuster
- Filter Cartridge (Activated Carbon)
- Filter Sponge
- Ceramic Rings Media
- Suction Cups (pre-attached)

## Product Components

Familiarize yourself with the parts of your hygger aquarium filter:




**Image:** Exploded view showing the pump, flat nozzle, spray bar, air tubing, suction cups, filter cartridge, inlet screen, filtration cage, sponge, filter ceramic rings, and bottom cover.

- **Pump Unit:** The main body containing the motor and impeller.
- **Filter Cartridge:** Contains activated carbon for chemical filtration.
- **Filter Sponge:** Provides mechanical filtration to trap debris.
- **Ceramic Rings:** Offers biological filtration by providing surface area for beneficial bacteria.
- **Inlet Screen:** Prevents large debris from entering the pump.
- **Filtration Cage:** Holds the filter media in place.
- **Spray Bar Outlet:** Disperses filtered water evenly, creating a gentle current and aeration.
- **Flat Nozzle Outlet:** Provides a concentrated water flow for strong circulation and aeration.
- **Air Tubing with Air Flow Adjuster:** Connects to the pump to draw in air, enhancing oxygenation.
- **Suction Cups:** Securely attach the filter to the aquarium glass.

- **Flow Adjustment Knob:** Located on top, controls the water flow rate.

## Installation

1. **Prepare the Filter Media:** Ensure the activated carbon cartridge, filter sponge, and ceramic rings are correctly placed within the filtration cage. The ceramic rings typically go at the bottom, followed by the sponge, and then the carbon cartridge.
2. **Attach Outlet:** Choose either the spray bar or flat nozzle outlet and securely attach it to the pump's water outlet.
3. **Connect Air Tubing (Optional):** If you wish to add extra aeration, connect the air tubing to the designated inlet on the pump and position the air flow adjuster outside the tank.
4. **Position in Aquarium:** Submerge the filter completely in the aquarium water. The triangular design allows for convenient placement in a corner. Ensure the water level is above the minimum water level line indicated on the filter body.



**Image:** The hygger filter positioned and submerged in an aquarium, ready for operation.

5. **Secure with Suction Cups:** Press the filter firmly against the aquarium glass using the suction cups to ensure a stable grip.



**Image:** Detail of the four suction cups on the hygger filter, designed for secure attachment to aquarium walls.

6. **Plug In:** Once the filter is securely installed and fully submerged, plug the power cord into a suitable electrical outlet.

## Operation

The hygger filter is designed for continuous operation to maintain water quality. Here's how to manage its functions:

### Adjusting Water Flow

The filter features an adjustable flow knob on the top of the unit. Rotate this knob to increase or decrease the water flow rate according to your aquarium's needs and the preferences of your aquatic inhabitants.



**Image:** Top view of the hygger filter showing the adjustable flow knob, which allows users to control the water output.

### Water Outlet Options

The filter comes with two interchangeable water outlets:

- **Spray Bar Outlet:** Provides a gentle, widespread water distribution, ideal for tanks with delicate fish or plants, and enhances surface agitation for oxygen exchange.
- **Flat Nozzle Outlet:** Delivers a stronger, more directed flow, suitable for creating currents and additional aeration.



**Image:** Comparison of the two water filtering modes: the spray bar outlet for gentle water dispersal and the flat nozzle outlet for stronger flow.

### Adjusting Water Flow Direction

The output arm of the filter can be rotated to direct the water flow in various directions, allowing you to customize water circulation within your aquarium.



**Image:** Diagram illustrating how the output arm of the filter can be adjusted to change the direction of water flow.

### Aeration

The included air tubing allows the filter to draw in air, creating bubbles and increasing oxygen levels in the water. Adjust the air flow adjuster on the tubing to control the amount of air introduced.

## 3-Stage Filtration System

The hygger aquarium filter utilizes a comprehensive 3-stage filtration process to maintain optimal water quality:



**Image:** Visual representation of the water flow through the filter, illustrating the 3-stage cleaning process from dirty water intake to clear water output.

1. **Mechanical Filtration (Filter Sponge):** The filter sponge traps larger particles and debris from the water, preventing them from clogging the other media and ensuring clear water.
2. **Chemical Filtration (Activated Carbon Cartridge):** The activated carbon absorbs odors, discolorations, and harmful chemicals from the water, improving clarity and overall water quality.
3. **Biological Filtration (Ceramic Rings):** The porous ceramic rings provide a large surface area for beneficial nitrifying bacteria to colonize. These bacteria break down ammonia and nitrites, which are toxic to fish, into less harmful nitrates.

## Maintenance and Cleaning

Regular maintenance is crucial for the efficient operation and longevity of your filter. It is recommended to clean the filter media every 2-4 weeks, depending on your aquarium's bioload.

1. **Unplug the Filter:** Always disconnect the filter from the power outlet before attempting any maintenance.
2. **Remove from Aquarium:** Carefully detach the filter from the aquarium glass and remove it from the water.
3. **Disassemble the Filter:** Gently pull apart the filter components. This typically involves removing the top pump unit, then the filtration cage from the main body.



**Image:** A six-step visual guide demonstrating how to disassemble the filter, remove media, clean, and rinse components.

4. **Clean Filter Media:**
    - **Filter Sponge:** Rinse the filter sponge thoroughly in old aquarium water (from a water change) or dechlorinated tap water. Avoid using untreated tap water as it can kill beneficial bacteria.
    - **Ceramic Rings:** Gently rinse the ceramic rings in old aquarium water to remove accumulated sludge. Do not scrub them vigorously, as this can remove beneficial bacteria.
    - **Activated Carbon Cartridge:** The activated carbon cartridge should be replaced every 2-4 weeks as its chemical absorption capacity diminishes over time. Do not rinse and reuse.
5. **Clean Pump Impeller:** Periodically, remove the impeller from the pump unit and clean it and its housing to ensure smooth operation and prevent blockages.
6. **Reassemble and Reinstall:** Once all components are clean, reassemble the filter in reverse order of disassembly. Reinstall it in the aquarium, ensuring it is fully submerged before plugging it back in.

## Troubleshooting

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

| Problem | Possible Cause | Solution |
| --- | --- | --- |

| Problem | Possible Cause | Solution |
|---|---|---|
| Filter not running / No water flow | • Not plugged in<br>• Power outage<br>• Impeller jammed or dirty<br>• Air lock | • Check power connection<br>• Verify power supply<br>• Unplug, remove impeller, clean thoroughly<br>• Ensure filter is fully submerged and gently shake to release trapped air |
| Weak water flow | • Clogged filter media<br>• Dirty impeller<br>• Flow adjustment knob set too low<br>• Low water level | • Clean or replace filter media<br>• Clean impeller<br>• Adjust flow knob to a higher setting<br>• Ensure water level is above the minimum line |
| Excessive noise | • Impeller dirty or damaged<br>• Filter not securely attached<br>• Air trapped in pump<br>• Filter not fully submerged | • Clean or inspect impeller for damage<br>• Re-secure filter with suction cups<br>• Gently shake filter to release air<br>• Add water to the aquarium |
| Water remains cloudy | • Clogged filter media<br>• Insufficient filtration for tank size/bioload<br>• New tank syndrome / bacterial bloom | • Clean or replace filter media regularly<br>• Perform partial water changes; consider additional filtration if bioload is high<br>• Monitor water parameters; perform water changes as needed |

## Specifications

Technical specifications for the hygger Submersible Aquarium Power Filter (Model hg009, 80 GPH variant):

| Feature | Detail |
|---|---|
| Brand | hygger |
| Model Name | aquarium internal filter |
| Item Model Number | hg009 |
| Size | 80 GPH (Gallons Per Hour) |
| Recommended Aquarium Size | 3-10 Gallons |
| Power | 4.5 Watts |
| Voltage | 110-120V, 60Hz |
| Product Dimensions (LxWxH) | 1.96 x 1.96 x 7 inches |

| Feature | Detail |
|---|---|
| Item Weight | 13.1 ounces (0.37 Kilograms) |
| Material | Plastic |
| Color | Black |
| Filtration Stages | 3-Stage (Mechanical, Chemical, Biological) |
| Included Components | Activated Carbon filter cartridge, Filter Sponge, Ceramic Rings |

**Image:** Overview of hygger filter models (S, M, L) including dimensions, max flow rate, power, and recommended aquarium size. This manual specifically covers the 'S' model (80 GPH).

## Warranty Information

This hygger product is covered by a **1-year manufacturer's warranty** from the date of purchase. The 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.

## Customer Support

If you have any questions, require assistance, or need to make a warranty claim, please contact hygger customer support.
Refer to the product packaging or the official hygger website for the most current contact information.
For more information and product updates, you may visit the hygger Store on Amazon.


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