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SunSun HW-402B

SunSun HW-402B External Canister Filter with UV Sterilizer

User Instruction Manual

INTRODUCTION

The SunSun HW-402B is a 4-stage external canister filter designed for aquariums up to 75 gallons. It provides mechanical, biological, and chemical filtration to maintain clear and healthy aquatic environments. This model includes a built-in 9W UV sterilizer to help control algae spores and bacteria. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your filter.

SAFETY INSTRUCTIONS

- Always disconnect power to the filter and any other aquarium equipment before performing maintenance or handling the unit.
- Ensure your hands are dry before plugging in or unplugging the unit.
- Do not operate the filter if the power cord or plug is damaged.
- The filter is designed for indoor use only and should not be exposed to direct sunlight or extreme temperatures.
- Place the filter below the aquarium water level to ensure proper operation and priming.
- Do not allow the filter to run dry. Always ensure it is filled with water before starting.
- Keep out of reach of children.

PRODUCT COMPONENTS

The SunSun HW-402B filter typically includes the following components:

- Filter canister with motor head (including UV sterilizer)
- Filter media trays (4 stages)
- Inlet and outlet hose connections
- Hoses
- Intake tube with strainer
- Spray bar (outlet)
- Suction cups and clips for hose securing

- Priming pump button
- Filter pads (initial set)

SETUP INSTRUCTIONS

1. Unpacking and Preparation

1. Carefully remove all components from the packaging.
2. Rinse all parts, especially the filter media trays and hoses, with clean water. Do not use soap or detergents.
3. Open the filter head by unclipping the four locking clamps.

2. Filter Media Placement

The HW-402B features four media trays for customized filtration. While initial filter pads are included, it is recommended to add your preferred mechanical, biological, and chemical media (e.g., bio-balls, ceramic rings, activated carbon) for optimal performance.

- Place mechanical filtration (e.g., coarse sponges, filter floss) in the bottom trays.
- Place biological filtration (e.g., ceramic rings, bio-balls) in the middle trays.
- Place chemical filtration (e.g., activated carbon, ammonia removers) in the top trays.
- Ensure media is arranged to allow for proper water flow through all stages.

After placing media, reassemble the trays and securely close the filter head with the locking clamps.

3. Hose Connection and Installation

1. Connect the hoses to the inlet and outlet ports on the filter head. Ensure a tight fit to prevent leaks.
2. Assemble the intake tube and attach the strainer. Place the intake tube inside the aquarium.
3. Assemble the spray bar and attach it to the outlet hose. Position the spray bar inside the aquarium, ensuring it is submerged.
4. Secure hoses to the aquarium rim or stand using the provided suction cups and clips to prevent accidental dislodgement.
5. Position the filter canister below the aquarium water level.

4. Priming the Filter

1. Ensure all hose connections are secure and the filter head is properly clamped.
2. Open the inlet and outlet valves on the hose adapter.
3. Repeatedly press the priming pump button on top of the filter head until water begins to flow into the filter and out of the spray bar into the aquarium. This indicates the filter is filled with water and air has been expelled.
4. Check for any leaks around the filter head or hose connections. Tighten if necessary.

5. Initial Startup

Once primed and checked for leaks, plug the filter into a grounded electrical outlet. The filter should start running quietly. Allow a few minutes for any remaining air to be expelled from the system.

OPERATING INSTRUCTIONS

Filter Operation

The filter operates continuously once plugged in. The flow rate is fixed at 265 GPH (1000 L/hr).

UV Sterilizer Operation

The built-in 9W UV sterilizer has a separate ON/OFF switch located on the motor head. The UV sterilizer helps control free-floating algae and harmful bacteria. It is generally recommended to run the UV sterilizer as needed, rather than continuously, to prolong the life of the UV lamp.

- To activate the UV sterilizer, flip the switch to the 'ON' position. A small indicator light will confirm operation.
- To deactivate, flip the switch to the 'OFF' position.

MAINTENANCE

Regular maintenance is crucial for optimal filter performance and water quality. The frequency of cleaning depends on your aquarium's bioload.

1. Disconnecting the Filter

1. Unplug the filter from the power outlet.
2. Close the inlet and outlet valves on the hose adapter.
3. Press the quick-release button on the hose adapter to detach it from the motor head.
4. Carefully remove the filter canister to a suitable location for cleaning.

2. Cleaning Filter Media

- Open the filter head and remove the media trays.
- Rinse mechanical filter media (sponges, floss) thoroughly in old aquarium water (from a water change) to preserve beneficial bacteria. Replace filter floss as it becomes heavily soiled.
- Biological media should only be rinsed lightly in old aquarium water if heavily clogged, to avoid destroying bacterial colonies.
- Chemical media (e.g., activated carbon) should be replaced every 2-4 weeks as it becomes exhausted.

3. Cleaning the Impeller and Motor Head

- Remove the impeller cover from the motor head.
- Carefully remove the impeller and clean it, its shaft, and the impeller chamber with a small brush to remove any debris or algae buildup.
- Clean the O-ring seal on the motor head and apply a thin layer of silicone grease if needed to maintain a watertight seal.

4. UV Lamp Replacement

The 9W UV lamp has a limited lifespan (typically 6-12 months of continuous use) and should be replaced periodically to maintain effectiveness. Refer to the manufacturer's instructions for specific replacement procedures and compatible lamp types.

5. Reassembly and Restart

After cleaning, reassemble the filter in reverse order. Ensure all clamps are securely fastened and the hose adapter is properly reconnected. Follow the priming instructions before plugging the unit back in.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Filter not starting / No flow	Not plugged in; Power outage; Air in system; Clogged impeller; Blocked intake/hoses.	Check power connection; Re-prime the filter; Clean impeller; Clear blockages in intake or hoses.
Reduced flow rate	Clogged filter media; Dirty impeller; Kinked hoses; Air in system.	Clean/replace filter media; Clean impeller; Straighten hoses; Re-prime the filter.
Loud noise / Vibration	Air in system; Dirty/damaged impeller; Filter not level.	Re-prime the filter; Clean/inspect impeller for damage; Ensure filter is on a stable, level surface.
Leaks from filter head	Improperly sealed O-ring; Loose clamps; Damaged O-ring.	Ensure O-ring is clean and properly seated; Tighten all clamps; Replace O-ring if damaged.
Cloudy water (after initial setup)	Insufficient filtration; New tank syndrome; Media not settled.	Ensure proper media setup; Allow time for biological filtration to establish; Perform partial water changes.
UV sterilizer not working	UV lamp burned out; Switch off; Electrical issue.	Check UV switch; Replace UV lamp; Consult support if electrical issue suspected.

SPECIFICATIONS

- **Model:** HW-402B
- **Flow Rate:** 265 GPH (1000 L/hr)
- **UV Sterilizer:** 9 Watts
- **Stages of Filtration:** 4
- **Recommended Tank Size:** Up to 75 gallons
- **Power:** 18W (Pump)
- **Voltage:** 110V
- **Dimensions (L x W x H):** 9 x 9 x 15.5 inches
- **Item Weight:** 10 Pounds

WARRANTY INFORMATION

This product is covered by a limited manufacturer's warranty. Please retain your proof of purchase for warranty claims. The warranty typically covers defects in materials and workmanship under normal use. Consumable parts such as filter media and UV lamps are generally not covered by the warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact the manufacturer directly.

CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to order replacement parts, please contact SunSun customer support. Contact information can typically be found on the product packaging or the manufacturer's official website.

