SunSun HW-404B

SunSun HW-404B External Canister Filter with 9W UV Sterilizer User Manual

Model: HW-404B | Brand: SunSun

1. PRODUCT OVERVIEW

The SunSun HW-404B is a 5-stage external canister filter designed for aquariums up to 150 gallons. It provides comprehensive mechanical, chemical, and biological filtration, processing up to 525 gallons per hour. This model includes an integrated 9-watt UV sterilizer to assist in controlling algae spores and bacteria, contributing to clearer water. The filter features a self-priming pump for simplified startup.

Figure 1: SunSun HW-404B External Canister Filter product packaging.

2. SAFETY INSTRUCTIONS

- Always disconnect power to the filter and any other aquarium equipment before performing maintenance or handling the unit.

- Ensure the filter is placed on a stable, level surface below the aquarium water level to facilitate proper operation and priming.

- Do not operate the UV sterilizer if the UV lamp is damaged or exposed. Direct exposure to UV light can be harmful to eyes and skin.

- Verify all hose connections are secure to prevent leaks.

- This appliance is for indoor use only.

- Refer to the user manual provided in the product details section for information regarding product assembly, usage, and troubleshooting.

3. PACKAGE CONTENTS

Carefully unpack all components and verify that the following items are included:

- SunSun HW-404B Canister Filter Unit
- Filter Pads (various grades for mechanical filtration)
- Hoses (Inlet and Outlet)
- Input and Output Devices (Spray Bar, Input Bar, etc.)
- UV Lamp (9W)
- Flexible Media Trays (4 units)
- Connection Accessories (Suction Cups, Clamps, etc.)

Figure 2: Diagram illustrating the various components included with the filter.

4. SETUP INSTRUCTIONS

Follow these steps for initial setup and installation:

1. **Prepare the Filter Head:** Unclip the buckles (1) and (2) from the main body of the filter. Carefully lift the filter head to separate it from the base.

2. **Install Filter Media:** The four flexible media trays allow for customized filtration. Place coarse filter pads in the bottom tray, followed by finer pads. Add chemical or biological media (e.g., activated carbon, ceramic rings, bio-balls, sold separately) to the upper trays as desired. Ensure media is arranged to allow water flow from bottom to top.

3. **Reassemble and Connect Hoses:** Secure the filter head back onto the main body. Push the inlet and outlet taps into the filter head and fasten using the screw caps. Attach the hoses to each tap and secure them.

4. **Connect to Aquarium:** According to the provided diagram, attach the input downpipes and output spray bars to the hoses and position them within your aquarium. Ensure hoses are cut to appropriate lengths to avoid kinks or sags.

5. **Priming the Filter:** The HW-404B features a self-priming pump. Fill the canister with aquarium water to the top of the upper tray before attaching the head. Press the blue primer button several times until water begins to flow through the hoses. Once water is flowing, plug in the filter. Gently rock the unit side to side to release any trapped air.

6. **UV Sterilizer Activation:** The switch for the 9W UV sterilizer is located on the side of the filter head. Turn it on if desired. A small indicator light confirms operation.

Outside filter

缸 外 过 滤 器

OPERATION GUIDE

1. To set your filter up, the buckles (1) and (2) should be unclipped from the main body of the filter head this will then separate the head from the base of the filter.

2. You can then access your filter trays to be able to clean the filter media or add filter media. Repeat step one to refasten the filter head to the base of the filter.

3. Push the inlet and outlet taps into the filter head and fasten using the small handle in between the taps this is also the shut of valve. After this attach your hose to each tap and secure using the screw caps.

4. According to the diagram then attach the input downpipes and output spraybars.

5. According to the diagram then press down the blue primer button on top of the filter head this will prime the filter drawing water in through the hose. Repeat this if necessary until all pipework is full with water.

6. The switch to (3) turn your UV and indicator on and off is located in the side of the filter head. Please check the UV regularly when cleaning your filter to make sure it is in full working order.

7. At any condition, when the barrel is seperated by the cover, the protect switch will be off. Then the UV will be extinguish to avoid the damage to body.

OPEN   CLOSE

THE METHOD OF REPLACING THE UV LIGHT TUBE

1. According to the diagrammatic presentation(1), please open thelid from the mail body carefully. Put the lid in inversion, then holdthe quartzose tube and circumgyrate it lightly, just as the left picture shows. When the gap of the quartzose tube and the gap of the connection of the light tubes are accordant, pull out the quartzose tube.

2. According to the diagrammatic representation, pulling outthe bad light tube.

3. Nstalling the new light tube and the quartzose tube.
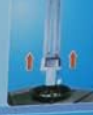
MODEL	HW–404B	H–MAX	2.5m
VOLTAGE	110V/60Hz	OUTPUT	2000L/h
PUMP POWER	55W	WEIGHT	6.0kg

UV POWER   5W ☐   7W ☐   9W ▮

Figure 3: Visual guide for filter operation and UV lamp replacement.

Outside filter

缸外过滤器

CERAMIC RING(OPTIONAL)

ACTIVE CARBON(OPTIONAL)

BIOCHEMICAL COTTON

BIO-BALL(OPTIONAL)

#		#	
1	INPUT AND OUTPUT DISCRETENESS	10	SPRAY BAR COVER
2	BARRELHEAD	11	DIRTINESS ENTRANCE
3	MAIN BODY	12	CONNECTED BAR
4	LIGHT TUBE	13	INPUT CURVY BAR
5	DRAINING SKEP COVER	14	JOINT OF DIRTINESS ENTRANCE
6	DRAINING SKEP	15	INPUT BAR
7	OUTPUT CURVY BAR	16	INPUT COVER
8	CONNECTED BAR	17	SUCKING DISC FOR FIX
9	SPRAY BAR	18	PIPE

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Figure 4: The SunSun HW-404B filter unit with inlet and outlet hoses connected.

5. OPERATING INSTRUCTIONS

Once installed and primed, the filter will begin circulating and filtering aquarium water. The UV sterilizer can be operated independently.

- **Power On/Off:** Plug the filter into a suitable power outlet to begin operation. Unplug to turn off.
- **UV Sterilizer:** The 9W UV sterilizer can be switched on or off as needed. It is effective for controlling free-floating algae and bacteria. Continuous 24/7 operation is generally not required and may reduce the lifespan of the UV lamp and potentially degrade plastic components over extended periods. Consult aquarium care guidelines for optimal UV usage.
- **Flow Rate:** The filter is rated for 525 GPH (2000 L/hr) without media and at zero head pressure. Actual flow rates will vary depending on the amount and type of filter media used, hose length, and height difference between the filter and the aquarium.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your filter.

6.1 Cleaning the Filter

1. **Disconnect Power:** Always unplug the filter from the power outlet before cleaning.

2. **Turn Off During Water Changes:** To prevent the filter from running dry and requiring re-priming, turn it off during aquarium water changes.

3. **Disassemble:** Close the inlet/outlet valves, disconnect the hoses, and unclip the filter head.

4. **Clean Media Trays:** Remove the media trays. Clean mechanical filter pads by rinsing them gently in a bucket of old aquarium water (not tap water, to preserve beneficial bacteria). Clean biological media lightly if necessary, also using old aquarium water.

5. **Clean Impeller:** Inspect and clean the impeller and its housing for any debris or blockages.

6. **O-Ring Maintenance:** Inspect the main O-ring on the filter head for wear or damage. Apply a thin layer of silicone lubricant (e.g., Vaseline) to the O-ring to maintain a good seal and ease of removal/insertion.

7. **Reassemble:** Reassemble the filter in reverse order, ensuring all trays are correctly seated and the head is securely clipped.

6.2 UV Lamp Replacement

The UV lamp has a limited lifespan and should be replaced periodically (typically every 6-12 months) to maintain effectiveness.

1. **Disconnect Power:** Ensure the filter is unplugged.

2. **Access UV Chamber:** Refer to the diagram (Figure 3) for specific instructions on accessing the UV lamp chamber. This typically involves opening a cover or unscrewing a component.

3. **Remove Old Lamp:** Carefully remove the old UV lamp. Handle with care as it may be fragile.

4. **Install New Lamp:** Insert the new 9W UV lamp into its socket. Ensure it is seated correctly.

5. **Reassemble:** Securely close the UV lamp chamber cover.

7. TROUBLESHOOTING

If you encounter issues with your SunSun HW-404B filter, consult the following common problems and solutions:

Problem	Possible Cause	Solution
Filter not starting or weak flow	Not primed correctly; air trapped; clogged impeller; kinked hoses.	Re-prime the filter; gently rock the unit to release air; clean impeller; check hoses for obstructions.
Leaking from filter head	Improperly seated O-ring; damaged O-ring; head not securely clipped.	Inspect and re-seat O-ring; apply silicone lubricant; replace O-ring if damaged; ensure all clips are fully engaged.
Excessive noise	Air trapped in filter; impeller issue; filter not level.	Release trapped air; clean/inspect impeller; ensure filter is on a stable, level surface.
UV sterilizer not working	UV lamp burned out; faulty switch; power issue.	Replace UV lamp; check power connection; contact support if switch is faulty.

8. SPECIFICATIONS

Feature	Specification
Model Name	HW-404B
Aquarium Capacity	Up to 150 gallons
Flow Rate	525 GPH (2000 L/hr)
Pump Power	55W
UV Sterilizer Power	9W
Voltage	110 Volts
Dimensions (L x W x H)	11" L x 11" W x 19" H (Unit) / 20 x 16 x 14 inches (Product)
Item Weight	16.84 pounds (7640 Grams)
Filtration Stages	5-Stage

9. WARRANTY AND SUPPORT

The SunSun HW-404B External Canister Filter comes with a 180-day warranty, which excludes the UV lamp. For warranty claims, technical assistance, or to order replacement parts, please contact SunSun customer support through your retailer or the official SunSun website.

Related Documents - HW-404B

[SunSun External Aquarium Filter Operation Manual](#)
Comprehensive operation manual for the SunSun External Aquarium Filter, covering models HW-302, HW-304, HW-402B, HW-404B, HW-403A, and HW-404A. Includes safety instructions, installation guide, troubleshooting tips, technical data, parts list, and filter media information.

[SunSun HW Series External Aquarium Filter Operating Manual](#)
Operating manual for SunSun HW-702A, HW-702B, HW-703A, HW-703B, HW-704A, HW-704B external aquarium filters by WilTec Wildanger Technik GmbH. Covers installation, operation, filter media, troubleshooting, and waste disposal.

SUNSUN HW-504A & HW-505A Aquarium External Filter User Manual

Comprehensive user manual for the SUNSUN HW-504A and HW-505A external aquarium filters, detailing installation, operation, maintenance, and troubleshooting.

SunSun HW-603B External Aquarium Filter Operation Manual

Comprehensive operation manual for the SunSun HW-603B external aquarium filter, detailing assembly, safety regulations, technical specifications, and disposal guidelines. Suitable for aquariums up to 120 liters.

SunSun JUP-01 Submersible UV Sterilizer for Aquariums

The SunSun JUP-01 Submersible UV Sterilizer offers powerful UV control for aquariums, eliminating harmful microorganisms and algae. Its compact, all-in-one design includes an integrated 800 L/hr pump, requiring no extra tubing or circulation pump. Suitable for freshwater and saltwater aquariums, and garden ponds, it ensures clear and healthy water.

SUNSUN Hang-on Aquarium Filter Operation Manual (Models 51649, 51650)

Comprehensive operation manual for SUNSUN Hang-on Aquarium Filters (Models 51649, 51650) by WilTec. Includes safety, assembly, maintenance, technical data, and troubleshooting for optimal aquarium water filtration.