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> Aquael Hypermax 4500 Canister Filter User Manual

Aquael Hypermax 4500

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Model: Hypermax 4500

1. INTRODUCTION

Thank you for choosing the Aquael Hypermax 4500 Canister Filter. This high-performance external filter is designed to provide efficient mechanical, biological, and chemical filtration for freshwater and saltwater aquariums. Proper installation, operation, and maintenance are crucial for optimal performance and the longevity of your filter. Please read this manual thoroughly before use.



Figure 1: AquaEl Hypermax 4500 Canister Filter

2. SAFETY INSTRUCTIONS

- Read all instructions before using the appliance.
- Ensure the voltage indicated on the filter matches your local power supply before connecting.
- Always unplug the filter from the power outlet before performing any maintenance, cleaning, or when not in use.
- Do not operate the filter if it has a damaged cord or plug, or if it malfunctions or has been dropped or damaged in any manner.
- Keep the power cord away from heated surfaces.
- This appliance is intended for indoor use only. Do not use it outdoors.
- Do not allow children to operate this appliance without supervision.
- Ensure the filter is placed on a stable, level surface below the aquarium water level to allow proper siphoning and operation.
- Never run the filter dry. Always ensure the filter is filled with water before starting.

3. PRODUCT OVERVIEW AND COMPONENTS

The Aquael Hypermax 4500 is designed for comprehensive aquarium filtration. Key features include variable pump speed, large media baskets, and multiple inlets and outlets for efficient water circulation.

Key Features:

- Variable Pump Speed: Adjustable pump speed via control buttons.
- Double Ball Valves: Water stop valves on the filter and hose connectors prevent uncontrolled water release during maintenance.
- Pre-filter System: Integrated pre-filter prevents larger debris from reaching main media, simplifying maintenance.
- Built-in Wheels: For improved mobility during setup or maintenance.
- Smart Operation: The filter includes an impeller clog detection system that alerts the user with an audible noise and flashing LEDs if the impeller is clogged or missing.



Figure 2: Advanced Features - Variable Pump Speed and Double Ball Valves

Included Components:

The Aquael Hypermax 4500 comes with the following components:

Advanced Features

Included Spray Bar Kits

Hypermax filters give you the option to use standard outlets, spray bars, or both right out of the box, no need to purchase a separate spray bar kit.



Variable Pump Speed

The pump speed can be changed with the push of a button, no more adjusting valves.



Double Ball Valves

The water stop valves simultaneously close the valves on the filter & the hose connectors thus, blocking off the uncontrolled release of water for cleaner maintenance.



Figure 3: Packed with Accessories

1. Empty Media Tray
2. Finish Sponge with Tray
3. Standard Sponge with Tray
4. Bioceramax 600 with Tray
5. Carbomax with Tray
6. Retractable Inlet Stems (2x)
7. Water Stop Valves (4x)
8. Canister Filter Unit
9. Pre-filter Sponge & Tray
10. Connecting Tubes (4x)
11. Outlet Nozzles (2x)
12. Silicone Lubricant
13. Spray Bar Kits (2x)
14. Inlet Screens (2x)
15. Hoses (4x)

4. SETUP INSTRUCTIONS

4.1. Preparing the Filter Media

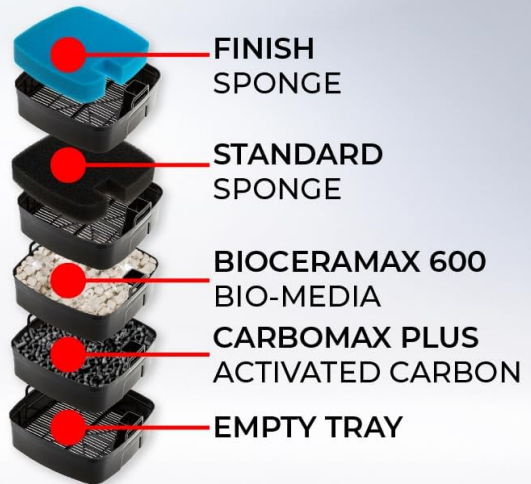
- Open the filter head and remove the media baskets.
- Rinse all filter media (sponges, bio-media, activated carbon) thoroughly under tap water to remove any manufacturing dust.
- Place the media into the baskets according to your desired filtration setup. The filter includes a finish sponge, standard sponge, Bioceramax 600 bio-media, and Carbomax Plus activated carbon.
- Ensure the pre-filter sponge is correctly seated in its designated compartment at the top of the filter.

HIGH FILTRATION CAPACITY

HYPERMAX 4500

INCLUDED FILTER MEDIA

EACH BASKET
CAN HOLD **3.6 L**
OF FILTER MEDIA



AVAILABLE FILTER MEDIA



Figure 4: High Filtration Capacity and Media Placement

4.2. Connecting Hoses and Inlets/Outlets

- Attach the hoses to the inlet and outlet connectors on the filter head. The Hypermax 4500 features two inlets and two outlets for enhanced water circulation.
- Securely connect the other ends of the hoses to the aquarium's inlet screens and outlet nozzles/spray bars.
- Ensure all connections are tight to prevent leaks. The advanced double ball valve system helps prevent leaks during maintenance.

MAXIMUM CIRCULATION

HYPERMAX 4500

2 INLETS & 2 OUTLETS
ENSURE **MAXIMUM WATER CIRCULATION**, PREVENTING DEAD ZONES IN LARGER AQUARIUMS

ADVANCED DOUBLE BALL VALVE SYSTEM PREVENTS MAJOR LEAKS WHILE PERFORMING MAINTENANCE



Figure 5: Maximum Circulation with Dual Inlets/Outlets and Double Ball Valves

4.3. Priming the Filter

- Once all connections are secure and the filter is positioned below the aquarium, open the water stop valves.
- Press the priming button on the filter head 2 to 4 times until water begins to flow into the filter and hoses.
- Ensure the filter chamber is completely filled with water before proceeding.

EASY TO USE

HYPERMAX 4500

CHANGE THE PUMP SPEED WITH
THE **PRESS OF A BUTTON**

2 TO 4 PUMPS IS ALL THAT'S
NEEDED TO PRIME THE FILTER



Figure 6: Priming the Filter and Pump Speed Controls

5. OPERATING INSTRUCTIONS

5.1. Powering On

After priming the filter and ensuring all connections are secure, plug the power cord into a grounded electrical outlet. The filter will begin operating.

5.2. Adjusting Pump Speed

The Hypermax 4500 features variable pump speed control. Use the '+' and '-' buttons on the filter head to increase or decrease the water flow rate as needed for your aquarium setup.

5.3. Smart and Safe Operation

The filter is equipped with a system to detect impeller issues. If the impeller is clogged or missing, the filter will shut down, emit an audible alert, and the pump speed indicator LEDs will flash. This feature helps prevent motor damage and alerts the user to a problem.

Packed with Accessories

- | | | | |
|-----------------------------|------------------------------|----------------------------|----------------------|
| 1 Empty Media Tray | 5 Carbomax with Tray | 9 Pre-filter Sponge & Tray | 13 2x Spray Bar Kits |
| 2 Finish Sponge with Tray | 6 2x Retractable Inlet Stems | 10 4x Connecting Tubes | 14 2x Inlet Screens |
| 3 Standard Sponge with Tray | 7 4x Water Stop Valves | 11 2x Outlet Nozzles | 15 4x Hoses |
| 4 Bioceramax 600 with Tray | 8 Canister Filter | 12 Silicone Lubricant | |



Figure 7: Innovative Features - Smart & Safe Operation

6. MAINTENANCE

Regular maintenance is essential for the efficient operation and longevity of your Aquael Hypermax 4500 filter.

6.1. Pre-filter Cleaning

- The integrated pre-filter is designed for easy access and cleaning, reducing the frequency of full filter disassembly.
- To clean the pre-filter, unplug the filter, close the water stop valves, and carefully open the pre-filter compartment.
- Remove the pre-filter sponge and rinse it thoroughly under aquarium water (not tap water, to preserve beneficial bacteria) until clean.
- Reinsert the clean pre-filter sponge and close the compartment securely.

SMART MAINTENANCE

HYPERMAX 4500



Designed for
Freshwater &
Saltwater



BUILT-IN WHEELS FOR
BETTER MOBILITY WHILE
PERFORMING MAINTENANCE

PRE-FILTER PREVENTS FILTER
MEDIA FROM CLOGGING



Figure 8: Smart Maintenance - Pre-filter Access and Built-in Wheels

6.2. Main Filter Media Cleaning/Replacement

- Periodically, the main filter media will require cleaning or replacement. The frequency depends on your aquarium's bio-load.
- Unplug the filter and close the water stop valves. Disconnect the hoses from the filter head using the quick-release mechanism.
- Carefully transport the filter to a suitable cleaning area. The built-in wheels facilitate movement.
- Open the filter head and remove the media baskets.
- Rinse mechanical media (sponges) in old aquarium water. Biological media should be gently rinsed to remove debris without destroying bacterial colonies. Chemical media (activated carbon) should be replaced as per manufacturer recommendations, typically every 2-4 weeks.
- Reassemble the filter, ensuring all seals are correctly seated, and re-connect the hoses. Prime the filter as described in Section 4.3 before plugging it back in.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Reduced Water Flow	Clogged pre-filter or main filter media, kinked hoses, air in the system, dirty impeller.	Clean pre-filter and main media. Check hoses for kinks. Re-prime the filter to remove air. Clean the impeller.
Filter Not Starting	No power, impeller jammed or missing, filter not primed.	Check power connection. Inspect and clean impeller. Ensure filter is fully primed with water.
Leaking	Improperly sealed O-ring, loose hose connections, damaged filter head or canister.	Check and lubricate O-ring. Tighten all hose connections. Inspect for cracks or damage.
Excessive Noise	Air trapped in filter, dirty or damaged impeller, filter not level.	Re-prime the filter. Clean or replace impeller. Ensure filter is on a stable, level surface.

8. SPECIFICATIONS

FILTER DIMENSIONS

HYPERMAX 4500

- AQUARIUM CAPACITY:
50-400 GAL. (200-1500L)
- MAIN CHAMBER CAPACITY:
4.2 GAL. (15.9L)
- PRE-FILTER CAPACITY:
0.4 GAL. (1.5 L)
- MEDIA TRAY CAPACITY:
0.9 GAL. (3.6 L)
- MAX FLOW RATE:
1188 GAL/H (4500 L/H)
- NUMBER OF FILTER BASKETS:
4 BASKETS



Figure 9: Filter Dimensions and Key Specifications

Specification	Value
Aquarium Capacity	50-400 Gallons (200-1500L)
Main Chamber Capacity	4.2 Gallons (15.9L)
Pre-filter Capacity	0.4 Gallons (1.5L)
Media Tray Capacity	3.6 Liters (per basket)
Number of Filter Baskets	4
Max Flow Rate	1188 GAL/H (4500 L/H)
Item Weight	44.8 pounds
Product Dimensions (LxWxH)	14.75 x 14.75 x 26.25 inches
Manufacturer	Aquael

9. WARRANTY AND SUPPORT

9.1. Warranty Information

The Aquael Hypermax 4500 Canister Filter comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, misuse, neglect, or unauthorized modifications.

9.2. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Aquael customer support. Refer to the official Aquael website or product packaging for the most current contact information.

You can visit the Aquael store for more information: [Aquael Store on Amazon](#)