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OASE Biomaster Thermo 250

OASE Indoor Aquatics Biomaster Thermo 250 External Aquarium Filter Instruction Manual

Model: Biomaster Thermo 250

1. PRODUCT OVERVIEW

The OASE Biomaster Thermo 250 is an advanced external aquarium filter designed for efficient water purification and temperature control in freshwater and marine aquariums up to 70 gallons. It features a compact design with an integrated heater, ensuring precise and uniform temperature levels without cluttering the aquarium interior. The filter incorporates a 4-stage filtration system for comprehensive biological, mechanical, chemical, and prefiltration.

Key features include:

- **Integrated Heater:** Provides precise and uniform temperature control, eliminating the need for an in-tank heater.
- **4-Stage Filtration:** Utilizes biological, mechanical, chemical, and prefiltration stages for optimal water clarity and health.
- **EasyClean Prefilter Module:** Allows for quick and mess-free prefilter cleaning, extending the life of main filter media.
- **Hel-X Biomedia:** Suspended filter media designed to create an optimal surface area for beneficial bacteria growth, aiding in nutrient reduction and toxin removal.
- **Quiet Operation:** Engineered for low noise levels during operation.



Figure 1: The OASE Biomaster Thermo 250 external aquarium filter.



MODEL

Figure 2: Key features of the Biomaster Thermo 250, including 4-year guarantee, 70-gallon capacity, German engineering, and Italian manufacturing.

2. SETUP INSTRUCTIONS

Before beginning installation, ensure all components are present and undamaged. Refer to the 'What's Included' section for a complete list of parts.

2.1 Unpacking and Component Identification

Carefully remove all items from the packaging. The package includes the aquarium filter with an integrated heater, various filter media, tubing, intake and outflow tubes, a diffuser, a spray bar, fittings, and a power cable.

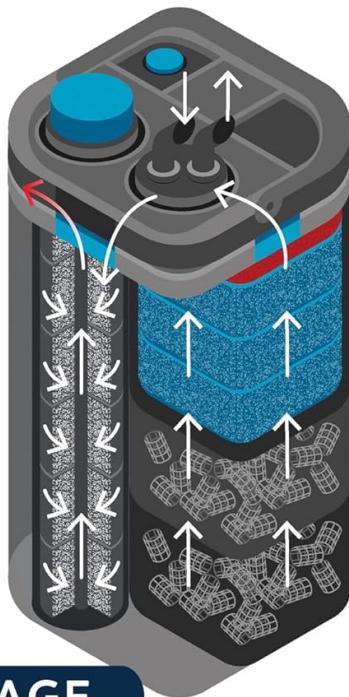


Figure 3: All components included with the OASE Biomaster Thermo 250 filter.

2.2 Filter Media Installation

The Biomaster Thermo 250 features a 4-stage filtration system. Install the provided filter media into the designated baskets according to the manufacturer's instructions. The Hel-X biomedia should be placed in the biological filtration stage.

Engineered with 4-stage sealed filtration: biological, mechanical, chemical and pre-filter. The specially designed sealed pathway ensures the water flows through all filter media, providing optimal filtration and clear water. All BioMaster features the OASE exclusive Hel-X Biomedia which provides a large settlement surface for microorganisms, ideal for nutrient reduction and removal of toxins.



4 - STAGE FILTRATION



Figure 4: The 4-stage filtration system with various media types.



Figure 5: Hel-X biomedia and the integrated heater compartment.

2.3 Hose and Connection Setup

1. Connect the intake and outflow tubes to the filter head.
2. Attach the tubing to the intake and outflow tubes, ensuring a secure fit.
3. Position the intake tube with the inlet strainer inside the aquarium.
4. Install the spray bar or diffuser on the outflow tube to ensure proper water circulation.
5. Ensure all connections are tight to prevent leaks.

2.4 Priming the Filter

Follow the specific priming instructions in the detailed manual to fill the filter with water before connecting it to power. This prevents air pockets and ensures proper operation.

2.5 Integrated Heater Installation

The integrated heater is designed for easy installation within the filter unit. Insert the heater into its designated slot in the filter head. Ensure it is securely placed before operating the filter.

No mess maintenance

The aquastop is designed to implement easy filter maintenance. Unlock and easily remove the aquastop. This way the tubes remain in order in the aquarium and you can move the external filter freely without water leakage.



Figure 6: The integrated heater being placed into the filter unit.

2.6 Placement

Place the filter on a stable, level surface below the aquarium. Ensure there is enough space for maintenance and access to connections.

What's Included

intake tube with inlet strainer, water distributor nozzle, spray bar, inlet and outlet adapters with flow control, tubing, fittings, heater adapter, and power cables



ALL IN ONE

Figure 7: The Biomaster Thermo 250 installed under an aquarium cabinet.

2.7 Setup Video Guide

For a visual guide on setting up your OASE BioMaster filter, please watch the official video below:

Video 1: Official OASE BioMaster Filter Series overview and setup guide. This video demonstrates the assembly and initial setup process for the filter.

3. OPERATING INSTRUCTIONS

Once the filter is properly set up and primed, connect the power cable to an electrical outlet. The filter will begin circulating and filtering the aquarium water. The integrated heater will automatically maintain the set temperature.

3.1 Flow Control

The OASE Biomaster Thermo 250 features adjustable flow control on both the inlet and outlet. Use these controls to fine-tune the water flow rate to suit your aquarium's specific needs and inhabitants.

3.2 Temperature Setting

Adjust the integrated heater's thermostat to your desired water temperature. The heater will then work to maintain this temperature consistently.

4. MAINTENANCE

Regular maintenance is crucial for the optimal performance and longevity of your Biomaster Thermo 250 filter. The EasyClean prefilter module simplifies routine cleaning.

4.1 EasyClean Prefilter Module Cleaning

The EasyClean prefilter module can be removed separately from the main filter unit without disconnecting hoses or disrupting the entire filtration system. This allows for frequent cleaning of coarse debris, which significantly reduces the frequency of full filter cleanings.

1. Turn off the filter and unplug it from the power source.
2. Close the Aquastop valve to prevent water leakage.
3. Carefully remove the EasyClean prefilter module from the filter head.
4. Rinse the prefilter sponges thoroughly with aquarium water (not tap water, to preserve beneficial bacteria) until clean.
5. Reinsert the module and reopen the Aquastop valve.
6. Restart the filter.



Module can be removed separately from the rest of the filter. This reduces maintenance, increases filter efficiency, and extends the life of main filter foams.



FAST & EASY

Figure 8: Removing the EasyClean prefilter module for cleaning.

4.2 Full Filter Cleaning

Periodically, the entire filter unit and all media will require cleaning. The Aquastop feature allows for convenient disconnection without water spillage.

1. Turn off and unplug the filter.
2. Close the Aquastop valve and disconnect the hose unit from the filter head.
3. Transport the filter to a suitable cleaning area.
4. Open the filter head and remove the media baskets.
5. Clean all filter media and the interior of the canister. Replace media as necessary.
6. Reassemble the filter, ensuring all seals are correctly seated.
7. Reconnect the hose unit, open the Aquastop valve, and restart the filter.

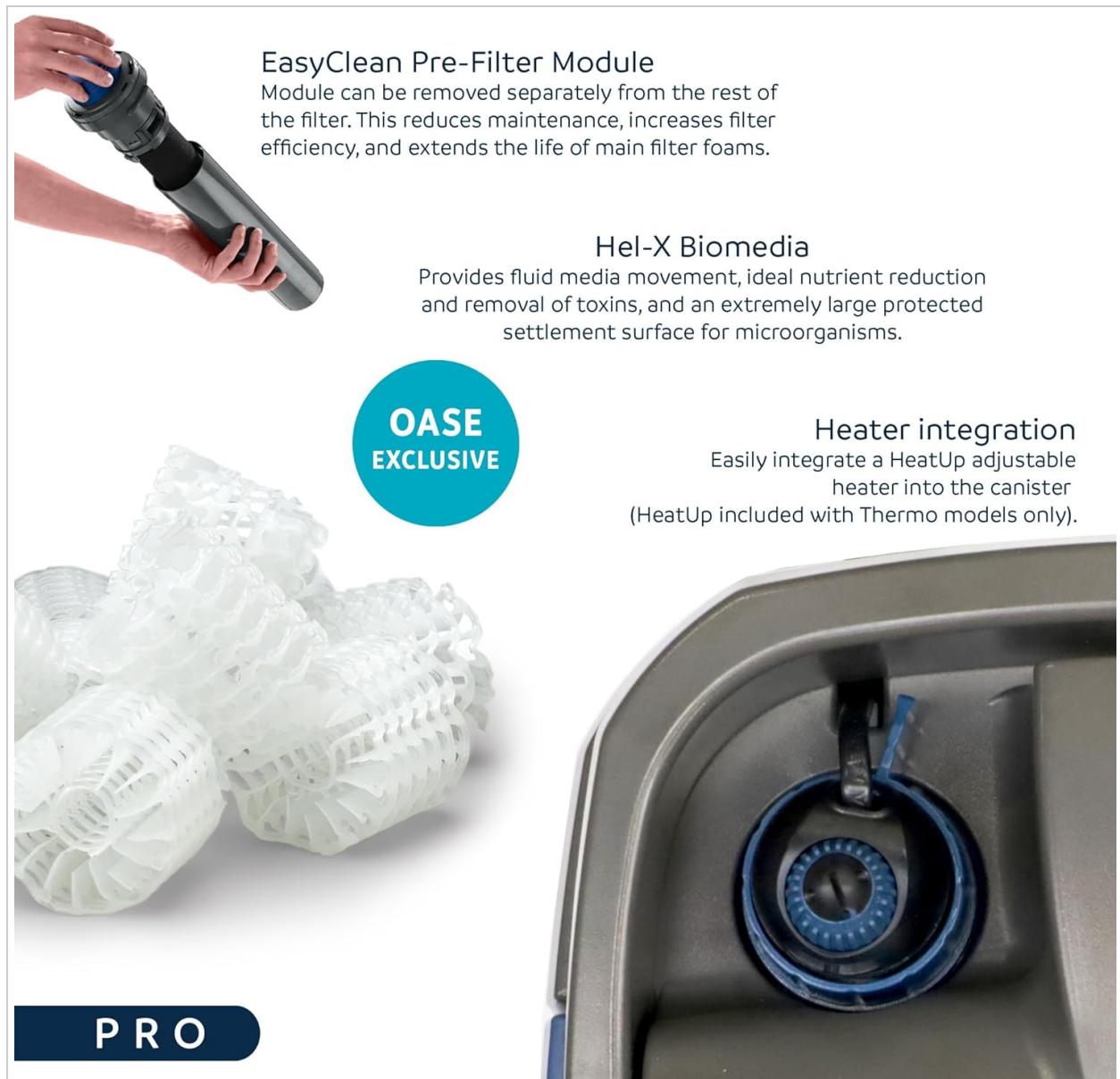


Figure 9: Detaching the Aquastop valve for full filter maintenance.

5. TROUBLESHOOTING

If you encounter issues with your Biomaster Thermo 250, consult the following common problems and solutions:

- **Reduced Flow Rate:** Check if the prefilter module is clogged and requires cleaning. Inspect other filter media for excessive debris. Ensure hoses are not kinked or obstructed.
- **Unusual Noise:** Air trapped in the filter can cause noise. Gently tilt the filter to release trapped air. Check the impeller for obstructions or wear. Ensure the filter head is securely latched.
- **Water Leakage:** Verify that all hose connections are tight and that the O-ring seal on the filter head is clean and properly seated. Check for cracks in the canister or hose connections.
- **Heater Not Working:** Ensure the heater is properly connected and the thermostat is set correctly. Check the power supply. If issues persist, the heater may need replacement.
- **Cloudy Water:** This can indicate insufficient filtration or an imbalance in water parameters. Perform a water change, clean filter media, and test water parameters.

For persistent issues, refer to the comprehensive troubleshooting section in the full product manual or contact OASE customer support.

6. SPECIFICATIONS

Feature	Specification
Brand	OASE
Model Number	55148
Product Dimensions	9.4"W x 14.6"H
Color	Black
Wattage	165 watts (total, including heater)
Voltage	120 Volts
Maximum Flow Rate	250 Gallons Per Minute (GPM)
Heat Output	150 Watts
Capacity	Up to 70 Gallons
Item Weight	11.46 pounds
UPC	706759551489
Country of Origin	Italy
Special Features	Adjustable flow control, EasyClean prefilter module, Sealed filtration pathway

7. WARRANTY & SUPPORT

The OASE Biomaster Thermo 250 comes with a **3-year limited warranty**. An additional **1-year warranty extension** is available upon online registration of your product. Please retain your proof of purchase for warranty claims.

For technical support, replacement parts, or warranty inquiries, please visit the official OASE website or contact their customer service department. Contact information can typically be found in the full product manual or on the OASE website.

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