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## TARARIUM WP-490F

# TARARIUM WP-490F Aquarium Filter Instruction Manual

## INTRODUCTION

The TARARIUM WP-490F is an advanced all-in-one internal aquarium filter system designed to maintain a clean and healthy environment for your aquatic pets. This versatile device is suitable for 20-75 gallon fish and turtle tanks, integrating multiple essential functions: water filtration, UV sterilization, oxygenation, wave making, and water pumping. It effectively clears cloudy water, reduces odors, and minimizes the need for frequent water changes, ensuring optimal water quality.

## SAFETY INFORMATION

Please read all safety instructions carefully before operating the TARARIUM WP-490F aquarium filter. Failure to follow these instructions may result in product damage, injury, or electric shock.

- **Electrical Safety:** Always disconnect the power supply before performing any maintenance, installation, or removal of the filter unit. Ensure your hands are dry when handling the power plug and outlet.
- **Submersible Use Only:** This filter is designed for full submersion in water. Do not operate the unit dry.
- **UV Light Safety:** The UV lamp emits ultraviolet radiation. Do not look directly at the UV light when it is active, as it can cause eye damage. The UV light is enclosed within the filter housing and is safe during normal operation.
- **Children and Pets:** Keep the filter and its components out of reach of children and pets to prevent accidental injury or ingestion.
- **Proper Installation:** Ensure the filter is securely installed in the aquarium according to the instructions to prevent it from falling or causing damage.
- **Damage Inspection:** Regularly inspect the power cord, plug, and filter unit for any signs of damage. Do not use if any part is damaged.

## PACKAGE CONTENTS

Verify that all items are present in the package:

- TARARIUM WP-490F Aquarium Filter Unit
- Air Tube
- Power Adapter with Timer Control
- Replacement Filter Sponges (4 pieces)



This image displays the complete TARARIUM WP-490F aquarium filter system, including the main filter unit, power adapter with timer, air tube, and a set of four replacement filter sponges.

## PRODUCT FEATURES

The TARARIUM WP-490F filter offers a comprehensive solution for aquarium water management:

- **All-in-One Functionality:** Combines water filtration, UV sterilization, odor reduction, oxygenation, wave making, and water pumping into a single device.
- **Dual-Stage Water Clarification:**
  - **Stage 1 (Mechanical/Biological Filtration):** Biochemical filter sponges effectively remove debris, fish waste, and fine particles, while cultivating beneficial bacteria.
  - **Stage 2 (UV Sterilization):** A built-in 254nm UV light diminishes odors and eradicates green water, contributing to a crystal-clear aquarium.

- **Adjustable Airflow:** Features adjustable airflow to meet varying oxygenation needs, ensuring a gentle environment for fish. The UV light housing is IPX8 waterproof.
- **Easy Installation and Maintenance:** Applicable for both marine and freshwater tanks. Can be used vertically or horizontally. Operates effectively at a minimum water level of 3.5 inches. The pump, UV lamp, and sponge components are designed for easy disassembly and assembly for simple maintenance.
- **Automatic Daily Cycle Timer:** The UV lamp and pump can operate independently. The timer allows setting working durations to 3, 6, 12, or 24 hours. The unit will automatically turn off after the set duration and repeat the cycle daily without manual adjustment.



A diagram explaining the dual-stage filtration process of the TARARIUM WP-490F, showing how the biochemical filter sponge removes debris and the UV sterilizer targets green water and odors.



A composite image showcasing various functionalities of the TARARIUM WP-490F filter, including its ability to create waves, an indicator for UV light operation, air supply for oxygenation, and its use for water pumping.

## SETUP INSTRUCTIONS

1. **Unpack the Filter:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Assemble the Filter:** Ensure the filter sponges are correctly inserted into the filter housing. The UV lamp should be securely in place within its protective casing.
3. **Position in Aquarium:** Place the filter unit inside your aquarium. It can be positioned vertically or horizontally. Ensure the water level is at least 3.5 inches (8.9 cm) above the bottom of the filter for proper operation. The suction cups on the back of the filter can be used to secure it to the aquarium glass.
4. **Connect Air Tube (Optional):** If you wish to utilize the air supply/oxygenation feature, connect one end of the provided air tube to the air intake nozzle on the top of the filter unit and the other end to the air stone (if included or desired). Adjust the air flow regulator on the tube as needed.
5. **Power Connection:** Connect the filter unit's power cable to the timer control unit, and then plug the timer control unit into a standard electrical outlet.

6. **Initial Operation:** Once plugged in, the filter pump will begin to circulate water. The UV light can be activated and timed using the control unit.



An illustration of the TARARIUM WP-490F filter installed in an aquarium, demonstrating its water circulation and UV sterilization function, with fish swimming nearby.

## OPERATING INSTRUCTIONS

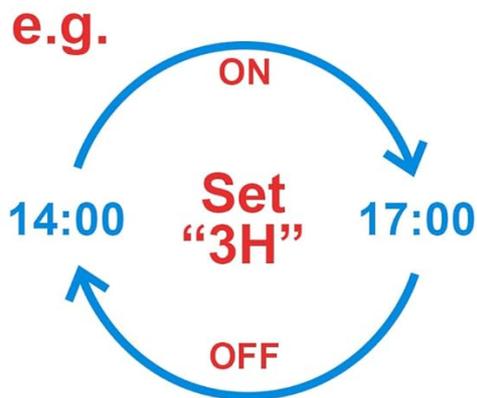
The TARARIUM WP-490F features an intelligent timer for its UV sterilization function.

1. **Power On/Off:** Plug the unit into a power outlet to turn on the pump. Unplug to turn off.
2. **Setting the UV Timer:**
  - Locate the timer control unit. It has buttons for '3H', '6H', '12H', and '24H' (Cycle).
  - Press the desired button to select the operating duration for the UV lamp. For example, pressing '3H' will activate the UV lamp for 3 hours.
  - After the set time, the UV lamp will automatically turn off. It will then automatically reactivate for the same duration approximately 21, 18, or 12 hours later, depending on the initial setting, repeating the cycle daily.

- The UV lamp and pump operate separately, allowing continuous water circulation even when the UV lamp is off.
3. **UV Working Status Indicator:** The filter housing has an indicator that illuminates when the UV lamp is active, allowing for easy visual confirmation of its operation.
  4. **Adjusting Airflow:** If the air tube is connected, use the air flow regulator on the tube to increase or decrease the amount of air bubbles produced.

# UV INTELLIGENT TIMING

## AUTOMATIC DAILY CYCLE after the First Setting



### Automatic Daily Cycle



Press to choose "3/6/12/24 H"

-  Set "3h" (Work for 3 hours, resume normal work after 21 hours)
-  Set "6h" (Work for 6 hours, resume work after 18 hours)
-  Set "12h" (Work for 12 hours, resume work after 12 hours)
-  Set "24h" (Work for all time)

This image shows the control panel for the TARARIUM WP-490F, highlighting the buttons for setting the automatic daily cycle timer for the UV lamp to 3, 6, 12, or 24 hours.

## MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your TARARIUM WP-490F filter.

1. **Disconnect Power:** Always unplug the filter from the power outlet before performing any maintenance.
2. **Cleaning Filter Sponges:**
  - Carefully remove the filter unit from the aquarium.
  - Disassemble the filter housing to access the biochemical filter sponges.

- Rinse the sponges thoroughly with old aquarium water (not tap water, as chlorine can kill beneficial bacteria) to remove accumulated debris. If heavily soiled, they can be gently squeezed.
- Replace the sponges if they are severely degraded or no longer effective.

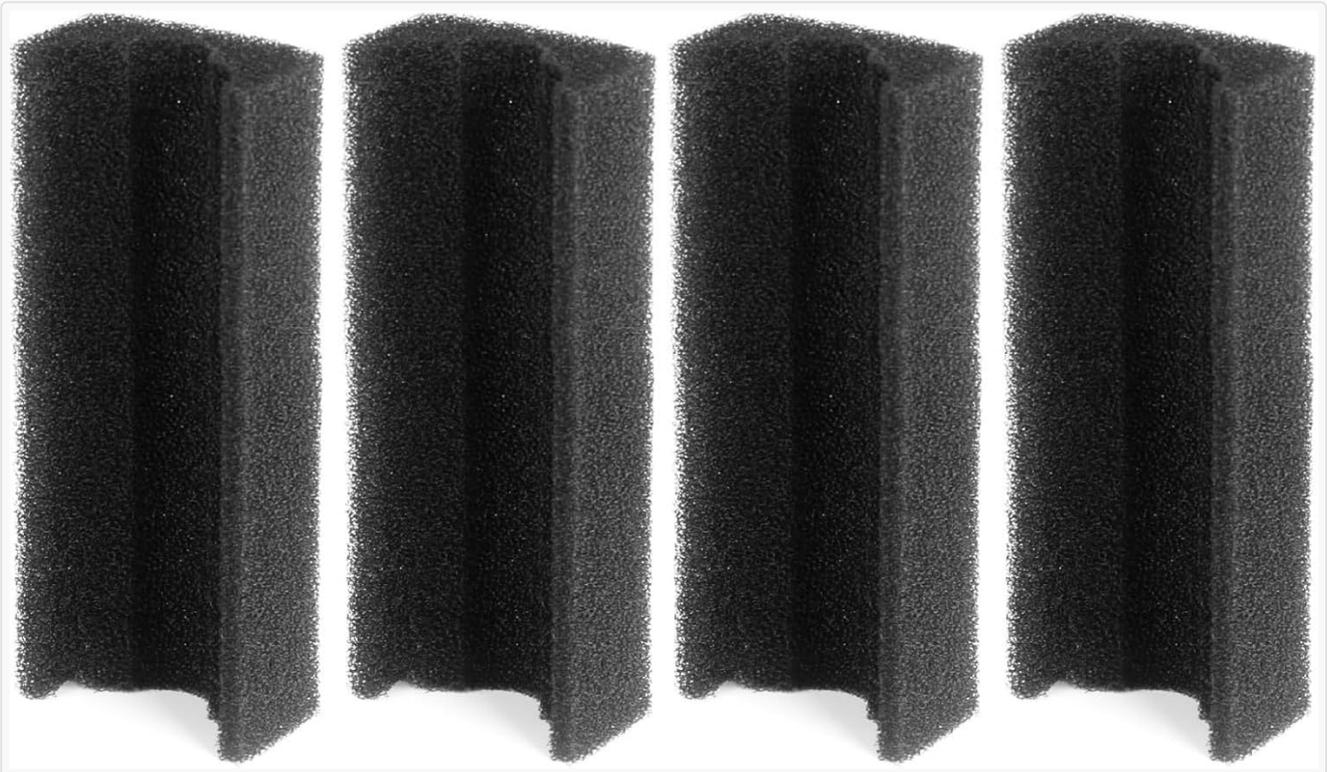
### 3. UV Lamp Maintenance:

- The UV lamp should be replaced approximately every 6-12 months, depending on usage, to maintain its effectiveness.
- To replace, carefully remove the UV lamp assembly from the filter unit. Unscrew the old lamp and insert a new one, ensuring it is securely seated.
- **Caution:** Handle the UV lamp by its base, avoid touching the glass directly, as oils from your skin can reduce its lifespan.

4. **Cleaning the Pump Impeller:** Periodically, the pump impeller may accumulate debris, reducing flow. Disassemble the pump head and clean the impeller and its chamber with a small brush.

5. **Cleaning the Filter Housing:** Wipe down the exterior and interior of the filter housing to remove any algae or mineral buildup.

6. **Reassembly:** Reassemble all components securely and place the filter back into the aquarium. Reconnect power.



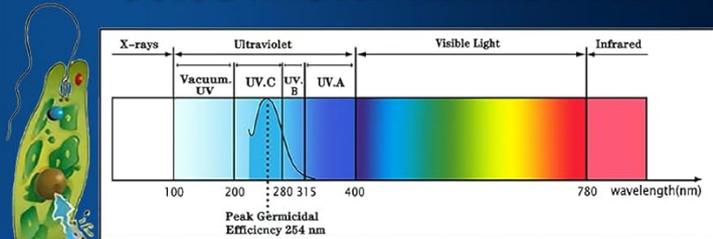
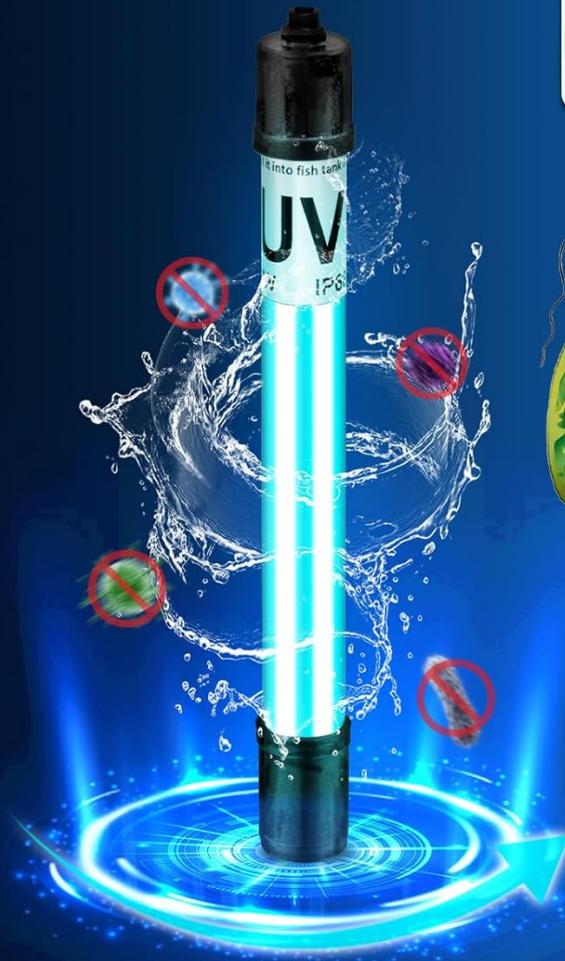
A close-up view of four black biological filter sponges, designed for use as replacements in the TARARIUM WP-490F aquarium filter.

# UV Sterilizer

Built-in Submersible UV aquarium light.

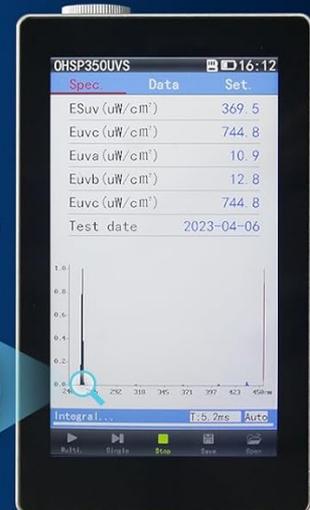


Ultraviolet sterilization  
**99.99% Sterilization Rate**



**Efficient Sterilization**

Professionally tested,  
UV-C 254nm wavelength.



A detailed illustration of the built-in submersible UV sterilizer within the TARARIUM WP-490F, highlighting its 254nm wavelength for efficient sterilization and 99.99% sterilization rate.

## TROUBLESHOOTING

If you encounter issues with your TARARIUM WP-490F filter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Filter not running / No water flow	<ul style="list-style-type: none"> <li>Power not connected</li> <li>Impeller jammed or dirty</li> <li>Motor failure</li> </ul>	<ul style="list-style-type: none"> <li>Check power plug and outlet.</li> <li>Disconnect power, clean impeller and chamber.</li> <li>Contact support if motor failure is suspected.</li> </ul>

Problem	Possible Cause	Solution
Water not clearing / Poor filtration	<ul style="list-style-type: none"> <li>• Filter sponges clogged</li> <li>• UV lamp ineffective or off</li> <li>• Tank size exceeds filter capacity</li> </ul>	<ul style="list-style-type: none"> <li>• Clean or replace filter sponges.</li> <li>• Check UV timer setting, replace UV lamp if old.</li> <li>• Ensure filter is appropriate for your tank size (20-75 gallons).</li> </ul>
UV light not turning on	<ul style="list-style-type: none"> <li>• Timer not set or expired</li> <li>• UV lamp burned out</li> <li>• Faulty connection</li> </ul>	<ul style="list-style-type: none"> <li>• Check timer settings on the control unit.</li> <li>• Replace UV lamp.</li> <li>• Ensure all connections are secure.</li> </ul>
Reduced airflow / No bubbles	<ul style="list-style-type: none"> <li>• Air tube clogged or kinked</li> <li>• Air intake nozzle blocked</li> <li>• Air flow regulator closed</li> </ul>	<ul style="list-style-type: none"> <li>• Check and clear air tube.</li> <li>• Clean air intake nozzle.</li> <li>• Adjust air flow regulator to open position.</li> </ul>

**Before**

**After**

Observe them under the microscope separately

**99.99%**  
**Cleaning Rate**

This image presents a 'before and after' comparison of an aquarium, demonstrating the effectiveness of the TARARIUM WP-490F filter in clearing green and cloudy water, with a stated 99.99% cleaning rate.

## SPECIFICATIONS

Feature	Detail
Model	WP-490F
Brand	TARARIUM
Flow Rate (GPH)	200 GPH
Recommended Tank Size	20-75 Gallons
UV Wavelength	254nm
Minimum Water Level	3.5 inches (8.9 cm)

Feature	Detail
UV Timer Settings	3H, 6H, 12H, 24H Daily Cycle
Filter Dimensions (approx.)	Height: 10.4 inches, Width: 2.5 inches
Air Hose Length (approx.)	16 inches
Pump Wire Length (approx.)	53 inches
UV Lamp Wire Length (approx.)	53 inches



This image provides a size comparison between the TARARIUM WP-490F and WP-590F models, detailing their dimensions and applicable tank sizes (20-75 gallons for WP-490F, 40-150 gallons for WP-590F).

## WARRANTY INFORMATION

TARARIUM products are manufactured to high-quality standards. This product comes with a limited warranty

against defects in materials and workmanship from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty does not cover damage resulting from improper installation, misuse, neglect, unauthorized repairs, or normal wear and tear of consumable parts like filter sponges and UV lamps.

## CUSTOMER SUPPORT

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For further assistance, technical support, or warranty inquiries, please contact TARARIUM customer service through the retailer where the product was purchased or visit the official TARARIUM website for contact information. When contacting support, please have your product model number (WP-490F) and purchase details ready.

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