

PULACO PL-05

PULACO Internal Aquarium Filter PL-05

Instruction Manual

Brand: PULACO | Model: PL-05

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PULACO Internal Aquarium Filter, Model PL-05. This filter is designed for aquatic environments ranging from 3 to 20 gallons, suitable for various aquatic and semi-aquatic pets including turtles, reptiles, amphibians, frogs, cichlids, newts, and fish.

Please read these instructions carefully before use and retain them for future reference to ensure optimal performance and longevity of your filter.



Figure 1: PULACO Internal Aquarium Filter application for various aquatic habitats.

2. SAFETY INSTRUCTIONS

- Always disconnect the power supply before performing any maintenance, installation, or cleaning.
- Ensure the filter is fully submerged in water during operation to prevent damage to the motor.
- Do not operate the filter if the power cord or plug is damaged.
- This appliance is for indoor use only and should not be used in outdoor environments.
- Keep out of reach of children.
- Ensure the voltage and frequency of your power supply match the specifications on the filter label.

3. PACKAGE CONTENTS

Carefully unpack all components and check against the list below. If any parts are missing or damaged, please contact customer support.



Figure 2: Exploded view of the PULACO Internal Aquarium Filter components with numbered parts for identification.

1. Filter Cover
2. Filter Plate (with media)
3. Water Inlet
4. Filter Body
5. Hanger

6. Inlet Sponge
7. Power Plug
8. Inlet Basket
9. Water Pump
10. Water Outlet

4. SETUP INSTRUCTIONS

1. **Assemble the Filter:** Ensure the filter plate (2) is correctly seated inside the filter body (4). Attach the water pump (9) to the bottom of the filter body. Secure the inlet basket (8) and inlet sponge (6) to the water pump's intake. Place the filter cover (1) on top.
2. **Attach Hanger/Suction Cups:** Attach the hanger (5) to the filter body if you plan to hang it on the tank rim. Alternatively, use the integrated suction cups on the back of the filter body to secure it to the inside wall of your aquarium.



Figure 3: Filter hanger attachment.



Figure 4: Filter suction cups for tank wall mounting.



Figure 5: Filter inlet sponge.

3. **Position in Tank:** Place the filter inside your aquarium, ensuring it is fully submerged. The minimum water line for proper operation is 1.9 inches (4.8 cm). This low water line capability makes it suitable

for amphibian tanks.

4. **Connect Power:** Once the filter is securely placed and fully submerged, connect the power plug (7) to a suitable electrical outlet.

5. OPERATING INSTRUCTIONS

After connecting the power, the filter will begin to operate. The 5W water pump provides a stable flow of 132 GPH (gallons per hour), ensuring efficient water circulation and filtration. The design promotes quiet operation, suitable for both freshwater and saltwater environments.

The waterfall design of the water outlet aids in water aeration, contributing to a healthier aquatic environment.

6. MAINTENANCE

Regular maintenance is crucial for the efficient operation and longevity of your PULACO filter. It is recommended to clean the filter every 2 weeks to maintain standard filtration efficiency.

Cleaning Procedure:

1. **Disconnect Power:** Always unplug the filter from the power outlet before cleaning.
2. **Remove Filter from Tank:** Carefully remove the filter from the aquarium.
3. **Disassemble Filter:** Remove the filter cover, then carefully extract the filter plate and inlet sponge.
4. **Clean Filter Media:** The filter utilizes a 3-layer filtration plate.



Figure 6: Diagram illustrating the 3-layer filtration plate components.

- **Bio-Cotton Layers:** Rinse the bio-cotton layers (top and bottom) thoroughly under clean water to remove trapped debris.
- **Micro Activated Carbon:** The activated carbon layer helps to clean water smell. Rinse it gently. Activated carbon has a limited lifespan and should be replaced periodically (e.g., monthly) for optimal odor removal.

5. **Clean Inlet Sponge:** Rinse the inlet sponge to remove any accumulated particles.
6. **Clean Pump Impeller:** Periodically, remove the water pump and clean the impeller to ensure smooth operation and prevent blockages.
7. **Reassemble and Reinstall:** Reassemble all parts in reverse order and place the filter back into the aquarium, ensuring it is fully submerged before reconnecting power.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Filter not starting or low flow	<ul style="list-style-type: none"> • No power supply • Impeller blocked or dirty • Filter media clogged • Water level too low 	<ul style="list-style-type: none"> • Check power connection • Clean impeller and pump housing • Clean or replace filter media • Ensure water level is above minimum line (1.9 inches)
Excessive noise	<ul style="list-style-type: none"> • Impeller dirty or damaged • Air trapped in pump • Filter not fully submerged 	<ul style="list-style-type: none"> • Clean or inspect impeller for damage • Gently shake filter to release air • Ensure filter is fully submerged
Water remains cloudy	<ul style="list-style-type: none"> • Filter media saturated or ineffective • Overfeeding or overstocking tank • New tank syndrome 	<ul style="list-style-type: none"> • Clean or replace filter media • Reduce feeding, check tank stocking levels • Perform partial water changes, allow biological filtration to establish

8. SPECIFICATIONS



Model	Power	Flow	Minimum Water Line	Suitable Tank Size
PL-05	5W	132GPH	1.9 inch	15-40 inche

Figure 7: Dimensions of the PULACO Internal Aquarium Filter.

- **Model:** PL-05
- **Power:** 5W
- **Flow Rate:** 132 GPH (Gallons Per Hour)
- **Minimum Water Line:** 1.9 inches (4.8 cm)
- **Suitable Tank Size:** 3 to 20 Gallons (15-40 inches)
- **Product Dimensions:** 8.89 x 7.87 x 19.81 cm (3.5 x 3.1 x 7.8 inches)
- **Product Weight:** 349 g
- **Color:** Black
- **Filtration Type:** Mechanical (Bio-Cotton) and Chemical (Activated Carbon)

9. WARRANTY AND SUPPORT

PULACO stands behind the quality and durability of its products. This aquarium filter comes with a lifetime warranty, ensuring peace of mind for your purchase.

For any questions, concerns, or assistance, please contact our professional after-sales service. We offer 24-hour support to address your needs promptly.

