

## Pawfly CW4450

# Pawfly Aquarium Air Pump User Manual

Model: CW4450

## INTRODUCTION

Thank you for choosing the Pawfly Aquarium Air Pump. This device is designed to provide essential oxygenation for your aquatic environment, promoting the health and vitality of your fish and plants. Its ultra-quiet operation and adjustable airflow ensure a comfortable and stable habitat. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your air pump.

## SAFETY INSTRUCTIONS

- Always unplug the air pump from the power outlet before performing any maintenance, cleaning, or when handling the pump or aquarium components.
- Ensure the air pump is placed in a dry location, away from water splashes or submersion.
- Use only with the specified voltage and frequency as indicated on the product label.
- Do not operate the pump if the power cord or plug is damaged.
- Keep out of reach of children and pets.
- This air pump is intended for aquarium use only and should not be used for medical purposes or other applications.

## PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Pawfly Aquarium Air Pump (Model CW4450)
- 1 x 4.9-foot (1.5m) Airline Tubing
- 1 x Air Stone
- 1 x Check Valve
- 1 x Suction Cup
- 1 x Instruction Manual

# All in One Package



Image: The Pawfly Aquarium Air Pump shown with its complete accessory kit, including airline tubing, an air stone, a check valve, and a suction cup.

## PRODUCT FEATURES

- **Steady Output:** Provides a maximum flow rate of 80 GPH (303 L/h) with a power consumption of 3 W and pressure of  $\geq 0.02$  MPa, suitable for fish tanks up to 70 gallons.
- **Adjustable Air Flow:** Features a top control knob for easy adjustment of air output, allowing customization from soft to vigorous bubbles.
- **Reliable Construction:** Built with a durable ABS shell and an integrated double-layer anti-vibration pad to ensure stable, consistent airflow and long-lasting performance.
- **Ultra-Quiet Operation:** Equipped with an anti-vibration pad and four rubber feet to absorb shocks and reduce noise to below 35 dB, ensuring a calm environment.
- **Versatile Use:** Ideal for various applications including aquariums, hydroponics, outdoor fishing, live bait transport,

and fresh fish markets.



Image: A diagram illustrating the compact dimensions of the Pawfly Air Pump (5.3 in x 2 in x 2.75 in) and its key performance metrics: 80 GPH max flow rate,  $\geq 0.02$  MPa pressure, 3 W power, and  $< 35$  dB noise level.

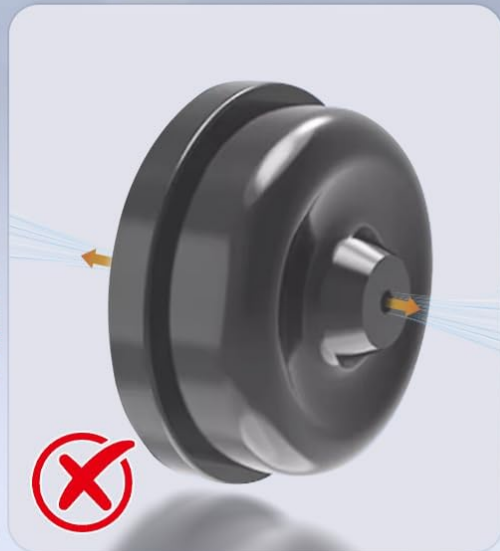


## Built-in Anti-Vibration Pad



### Double-Layer

Excellent vibration absorption  
Smooth, consistent airflow  
Longer-lasting performance



### Single-Layer

Weak vibration absorption  
Less stable, uneven airflow  
Shorter lifespan

Image: A comparison diagram showing the effectiveness of a double-layer anti-vibration pad (left) versus a single-layer pad (right) in absorbing vibrations for smoother, more consistent airflow.



# Ultra-Quiet Operation

Run below 35 dB to keep your tank calm and cozy

< 35 dB



Image: The Pawfly Air Pump positioned next to an aquarium, with a graphic indicating its ultra-quiet operation at less than 35 dB, suggesting it won't disturb a sleeping child in the background.

## SETUP INSTRUCTIONS

1. **Connect Tubing:** Attach one end of the provided airline tubing to the air outlet nozzle on the air pump.
2. **Attach Air Stone:** Connect the air stone to the other end of the airline tubing.
3. **Install Check Valve:** Insert the check valve into the airline tubing between the air pump and the air stone. Ensure the check valve is oriented correctly, with the arrow pointing towards the air stone (away from the pump). This prevents water from flowing back into the pump during power outages.
4. **Position Air Stone:** Place the air stone at the desired location within your aquarium.
5. **Place Air Pump:** Position the air pump in a dry, stable location. For optimal safety and to prevent water backflow, it is recommended to place the air pump above the water level of your aquarium. If the pump must be placed below the water level, the check valve is essential to prevent water damage to the pump.

6. **Power On:** Once all connections are secure and the pump is safely positioned, plug the power cord into a suitable electrical outlet.

## OPERATING INSTRUCTIONS

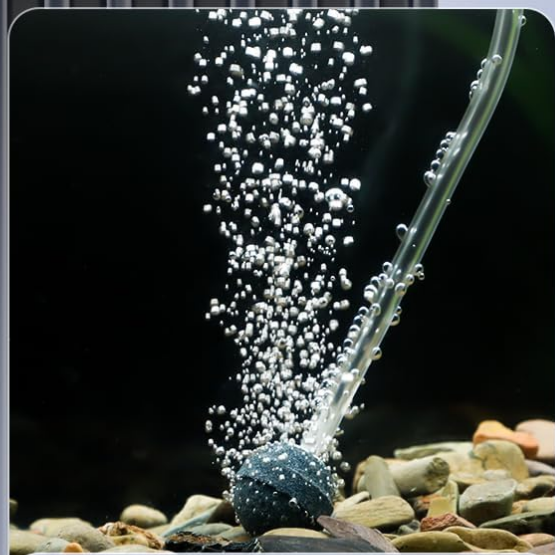
1. **Start Operation:** After completing the setup, plug the air pump into a power outlet. The pump will begin to operate, and bubbles will emerge from the air stone in your aquarium.
2. **Adjust Airflow:** Use the control knob located on the top of the air pump to adjust the air output. Turn the knob towards the '+' symbol for increased airflow and more vigorous bubbles. Turn it towards the '-' symbol for reduced airflow and softer bubbles.
3. **Monitor:** Observe the bubble output and the overall oxygenation in your aquarium. Adjust the airflow as needed to meet the specific requirements of your aquatic inhabitants and plants.

# Adjustable Flow Rate

Tailor your ideal flow for optimal oxygen delivery



High Flow



Low Flow

Image: A close-up view of the adjustable flow rate knob on the top of the Pawfly Air Pump, showing the '+' and '-' indicators for increasing or

decreasing airflow, alongside visual examples of high and low bubble output in an aquarium.

## MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your air pump.

- **Air Stone Cleaning:** Periodically remove and clean the air stone to prevent mineral buildup and clogging, which can restrict airflow. Use a stiff brush or soak in a mild vinegar solution if necessary. Rinse thoroughly before returning to the aquarium.
- **Tubing Inspection:** Regularly check the airline tubing for any kinks, cracks, or blockages. Replace damaged or brittle tubing to maintain efficient airflow.
- **Pump Exterior:** Keep the exterior of the air pump clean and free from dust. Wipe with a dry cloth. **Do not immerse the pump in water.**

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No Airflow	Power not connected; Tubing kinked/blocked; Air stone clogged; Check valve incorrect orientation.	Ensure pump is plugged in; Straighten tubing or clear blockage; Clean or replace air stone; Reorient check valve (arrow towards air stone).
Weak Airflow	Airflow knob set too low; Leaks in tubing connections; Clogged air stone.	Adjust airflow knob to increase output; Check and secure all tubing connections; Clean air stone.
Excessive Noise	Pump not on a stable surface; Damaged rubber feet; Loose components.	Place pump on a flat, stable surface; Check and replace rubber feet if damaged; Inspect pump for any loose parts.

## SPECIFICATIONS

Model Name	CW4450
Power	3 W
Max Flow Rate	80 GPH (303 L/h)
Pressure	≥ 0.02 MPa
Noise Level	< 35 dB
Recommended Tank Size	Up to 70 Gallons
Hose Length	4.9 Feet (1.5m)
Material	ABS Plastic
Item Weight	14 ounces
Dimensions (L x W x H)	6.26 x 4.02 x 3.7 inches

## WARRANTY AND SUPPORT

This Pawfly Aquarium Air Pump (Model CW4450) comes with a **1 Year Warranty** from the date of purchase. This warranty covers manufacturing defects under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact Pawfly customer service. Keep your purchase receipt as proof of purchase for warranty validation.

