

AQQA 500W (AQ-029)

AQQA Aquarium Heater 500W Submersible Fish Tank Heater User Manual

Model: 500W (AQ-029) | Brand: AQQA

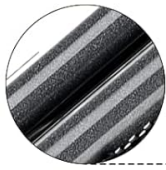
1. INTRODUCTION

Thank you for choosing the AQQA Aquarium Heater. This submersible heater is designed to provide a stable and optimal temperature environment for your aquatic pets in both marine and freshwater aquariums. Featuring advanced safety mechanisms and an external LED display controller, this product ensures reliable performance and ease of use. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

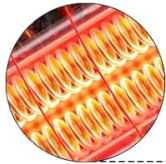
2. PRODUCT FEATURES

- **Double Over-Heat Protection:** Automatically powers off when exposed to air (display shows "E1") or when water temperature exceeds 95°F (display shows "HH").
- **Automatic Heating & Memory Function:** Built-in sensitive dual temperature probes maintain the set temperature (accuracy within $\pm 1^{\circ}\text{F}$). Retains previous set temperature upon restart.
- **Double Tube Explosion-proof Quartz Heater:** Constructed with 2 explosion-proof quartz tubes and high-temperature resistant nickel-chromium alloy heating wires, encased in a high-quality plastic shell for safety.
- **Convenient LED Display Temp Controller:** External LED display clearly shows real-time and set water temperatures. Easily adjust temperature and change units without wetting hands (Temp range: 59-93°F).
- **Versatile Application:** Suitable for 66-135 gallon aquariums, compatible with both saltwater and freshwater environments.

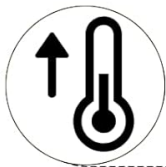
More Powerful, Safer and Durable



Double quartz glass tube, safe and explosion-proof.



Nickel-chromium alloy heating wire, high temperature resistance, fast heating.



PC plastic shell, high temperature resistance up to 180°C.



Small hole design, can prevent the fish from being scalded while dissipating heat evenly.



Image: Internal components highlighting double quartz glass tubes for safety and nickel-chromium alloy for fast heating.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all the following items are included and in good condition:

- 1x AQA Double Quartz Heater with LCD Digital Controller
- 2x Suction Cups
- 1x User Manual



Image: Contents of the AQQA Aquarium Heater package, including the heater unit, external controller, suction cups, and user manual.

4. SAFETY INSTRUCTIONS

Adhering to these safety guidelines is crucial for preventing accidents and ensuring the longevity of your heater:

1. Always ensure the AQQA heater is **fully submersible** when it is on. Operating it partially submerged or exposed to air can cause damage and trigger safety features.
2. Before performing any maintenance, water changes, or cleaning the fish tank, always **unplug the heater and wait at least 15 minutes** for it to cool down. This prevents burns and ensures safety.
3. Do not bury the heating rod in sand or mud. Ensure adequate water circulation around the heater for optimal performance and safety.
4. Do not use alcohol or other chemical cleaners on the heater. Use only clean water for maintenance.
5. Always create a **drip loop** for the power cord to prevent water from traveling along the cord and into the electrical outlet.

6. Close supervision is necessary when the heater is used near children.
7. The heater should not be used by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the heater by a person responsible for their safety.

5. SETUP

Proper installation is key to the heater's efficiency and safety:

1. **Attach Suction Cups:** Securely attach the provided suction cups to the heater unit.
2. **Heater Placement:** Place the heater fully submerged in the aquarium. For optimal heat distribution, position the heater in an area with good water flow, such as near a filter outlet or powerhead. Avoid placing it directly on the substrate or in stagnant water areas.
3. **Controller Placement:** The external LED display controller is not waterproof. Mount it outside the aquarium, ensuring it is kept away from water splashes.

How to Place the Aquarium Heater Correctly?

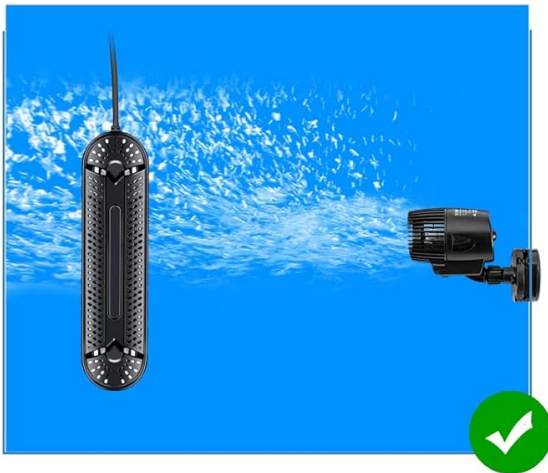


Image: Visual guide demonstrating correct (fully submerged, vertical or horizontal in flow) and incorrect (partially submerged,

6. OPERATING INSTRUCTIONS

Operating your AQQA heater is straightforward:

1. **Power On:** Plug the heater into a suitable electrical outlet. The LED display on the external controller will illuminate.
2. **Understanding the Display:** The display shows two temperature readings: the current water temperature (top) and the set temperature (bottom).
3. **Adjusting Temperature:** Press the button on the controller to adjust the set temperature. Each press will increase the temperature by 1°F (or 1°C). The temperature range is 59-93°F (15-34°C). If adjusted to the highest value, pressing again will cycle back to the lowest.
4. **Switching Units:** To switch between Fahrenheit (°F) and Celsius (°C), long press the button for 3 seconds.
5. **Heating Indicator:** When the heater is actively heating, the surrounding lights on the controller will flash continuously. Once the set temperature is reached, the lights will stop flashing, indicating that heating has paused.
6. **Memory Function:** The heater retains the last set temperature even after a power interruption, so you do not need to reset it.

Real-time Temperature, LCD Display



Current Water Temperature

Set Temperature

- Press to adjust the temperature (59°F-93°F/ 15°C-34 °C)
- When adjusted to the highest value of 93°F/34°C, press again to return to 59°F/15°C.
- Press for 3 seconds to switch units (°F/°C).



Please note: The controller is not waterproof, please keep it away from water.

Image: Detailed view of the external controller, explaining how to read current and set temperatures, and how to adjust settings.



AQA Upgraded Submersible Aquarium Heater 500W/800W/1000W

Provide the most suitable temperature environment for your fish

Image: Illustration of the heater's intelligent temperature control, showing how it automatically adjusts power consumption to maintain the set temperature, and its memory function.

Official Product Video: Operation Overview

Video: This video provides a visual demonstration of how to operate the AQA 500W/800W Submersible Aquarium Heater, including setting the temperature and understanding the display.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your heater:

- **Cleaning:** Periodically clean the heating rod to prevent calcium buildup and algae growth, which can reduce efficiency. Always unplug the heater and allow it to cool for at least 15 minutes before removing it from the water for cleaning.
- **Inspection:** Regularly inspect the power cord and heater unit for any signs of damage, cracks, or wear. Do not use if damaged.
- **Water Changes:** Ensure the heater remains fully submerged during water changes. If the water level drops significantly, the heater's dry-run protection will activate.

8. TROUBLESHOOTING

Refer to this section for common issues and their solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Display shows "E1" and flashes	Heater exposed to air (Run Dry Protection)	Ensure heater is fully submerged. If water level is low, add water to the aquarium.
Display shows "HH" and flashes	Water temperature exceeds 95°F (Overheat Protection)	Check ambient room temperature. If too high, consider cooling measures. The heater will resume normal operation once temperature drops.
Inaccurate Temperature Reading	Sensor discrepancy or external factors	Use a separate, reliable thermometer to verify water temperature. Adjust the heater's set temperature accordingly to compensate for any discrepancy.
Heater not turning on/off as expected	Power supply issue or internal malfunction	Check power connection. Ensure the heater is fully submerged. If issues persist, contact customer service.

2 Automatic Power-off Protection



Run Dry Protection: When the water level is too low and the heater is exposed to the air, the heater will automatically power off and display the error code "E1".



Overheat Protection: When the water temperature exceeds 95°F/35°C, the heater will automatically power off and display the error code "HH".

Image: Visual representation of the heater's two automatic power-off protections: Run Dry Protection (E1) and Overheat Protection (HH).

9. SPECIFICATIONS

Detailed technical specifications for the AQQA Aquarium Heater:

- **Model:** 500W (AQ-029)
- **Voltage:** 110V/60Hz
- **Application:** Suitable for 66-135 Gallon (250-500L) Aquariums
- **Temperature Accuracy:** $\pm 1^{\circ}\text{F}$ ($\pm 1^{\circ}\text{C}$)
- **Control Range:** 59-93°F (15-34°C)
- **Heating Rod Dimension:** 11.4 x 3 x 1.2 inches
- **Temperature Controller Dimension:** 4.5 x 5 x 1.2 inches
- **Cord Length:** Power Cord: 6.3 ft, Heater Cord: 4 ft

10. WARRANTY AND SUPPORT

AQQA is committed to providing high-quality products and excellent customer service:

- **Warranty:** This product comes with a 12-month after-sale service from the date of purchase.
- **Customer Support:** For any questions, concerns, or technical assistance, please contact our 7*24H lifetime customer service team. Refer to the product packaging or official AQQA website for contact details.