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> AQQA Fish Tank Heater 500W (Model GUS-AQ201-500W-US) Instruction Manual

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Quartz Glass Submersible Aquarium Heater with Intelligent Overheat & Dry-Run Protection

1. PRODUCT OVERVIEW

The AQQA 500W Fish Tank Heater is designed to maintain a stable and consistent water temperature in marine and freshwater aquariums ranging from 55 to 130 gallons. Featuring durable quartz heating rods and an intelligent external controller, this submersible heater provides efficient heating with advanced safety mechanisms.

External Digital Controller

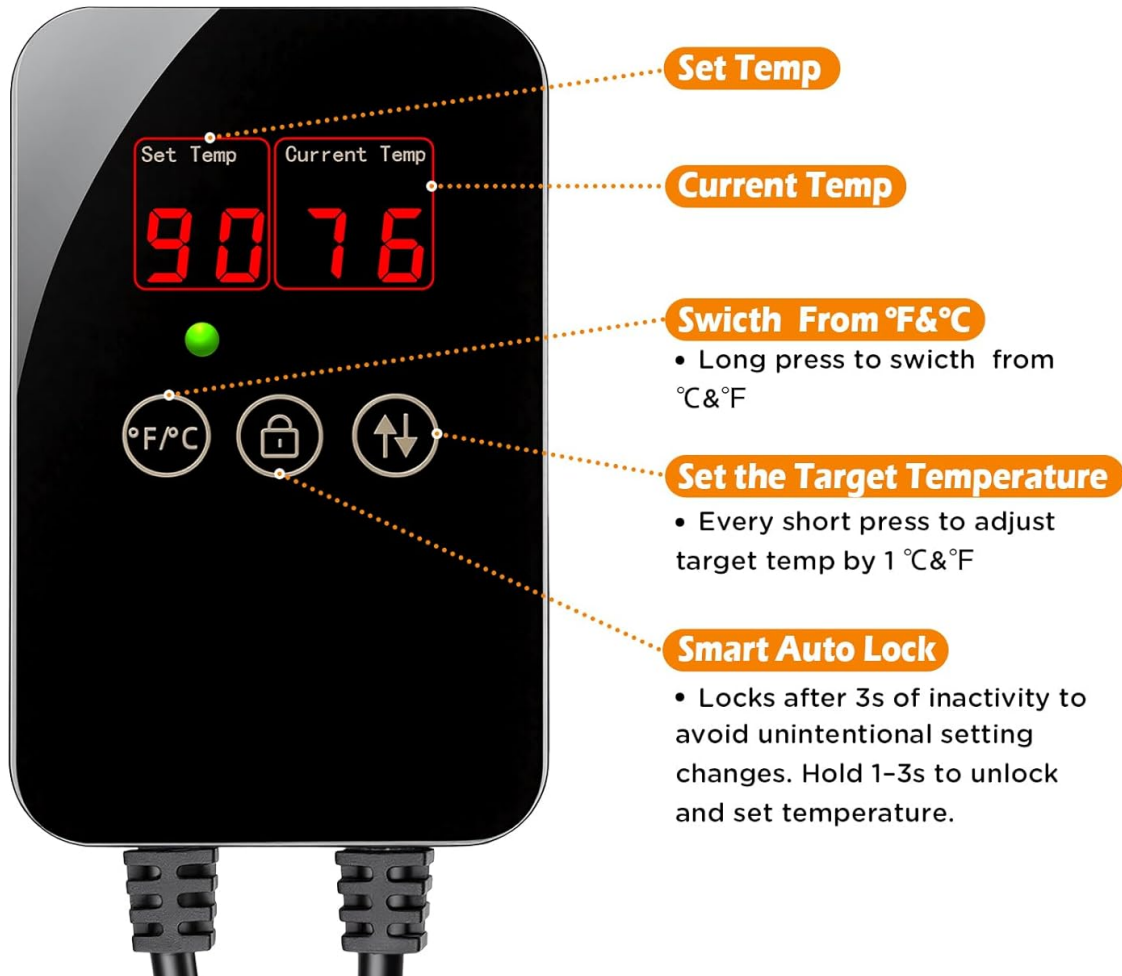


Image 1.1: AQQA 500W Fish Tank Heater and its external digital controller.

2. KEY FEATURES

- **Durable Quartz Heating:** Built with quartz heating rods for fast, even, and efficient heat transfer. The heat-resistant ABS shell ensures reliable performance and durability.
- **Advanced Safety Protection:** Integrated anti-dry and overheat protection systems. The heater automatically stops heating and displays error codes for safety.
- **Intelligent Constant Temperature Control:** Automatically maintains a steady water temperature. Heating resumes when the temperature drops 1°F/1°C below the set value, ensuring consistent warmth.
- **Easy & Secure Temperature Adjustment:** External controller allows effortless temperature setting (59°F–94°F / 15°C–34°C). A smart auto-lock feature prevents accidental changes.
- **Memory Function:** Automatically restores previous temperature settings after power is restored.

3. SETUP AND INSTALLATION

Follow these steps for proper installation of your AQQA Fish Tank Heater:

1. **Attach Adhesive Pad:** Stick the adhesive pad onto the exterior of your aquarium tank.

2. **Mount Controller Bracket:** Attach the controller bracket to the adhesive pad.
3. **Place Controller:** Securely place the external digital controller onto the mounted bracket.
4. **Submerge Heater:** Fully submerge the heater unit in the aquarium water. Ensure it is completely covered by water and positioned to allow for proper water circulation.
5. **Avoid Substrate:** Do not place the aquarium heater directly into sand or mud, as this can lead to inaccurate heating and potential damage.
6. **Connect Power:** Plug the heater's power cord into a suitable electrical outlet.



Image 3.1: Visual guide for installing the external controller and important notes for heater placement.

4. OPERATING INSTRUCTIONS

The external digital controller provides intuitive control over your aquarium's temperature.

4.1. Temperature Setting

1. **Unlock Controller:** Long press the lock button () on the external controller for 1–3 seconds to enter setting mode.
2. **Adjust Temperature:** Press the up (↑) or down (↓) arrow buttons to adjust the target temperature. Each press changes the temperature by 1°F or 1°C. The adjustable range is 59°F–94°F (15°C–34°C).
3. **Auto-Lock:** The system will automatically lock after 3 seconds of inactivity to prevent unintended changes.

4.2. Fahrenheit/Celsius Switch

To switch between Fahrenheit (°F) and Celsius (°C), long press the °F/°C button on the controller.

4.3. Display Indicators

- **Set Temp:** Displays your desired water temperature.
- **Current Temp:** Displays the actual water temperature in the aquarium.
- **Green Light:** Indicates the heater is maintaining the set temperature.
- **Red Light:** Indicates the heater is actively heating the water.

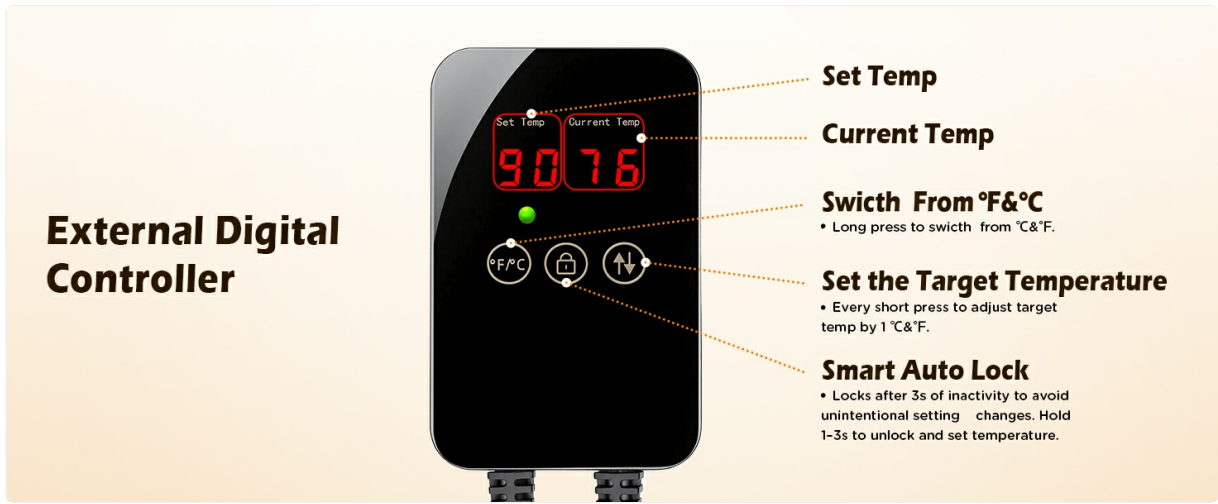


Image 4.1: Detailed view of the external digital controller with button functions.

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Video 4.1: Official product video demonstrating the AQQA Aquarium Heater's features and operation, including temperature setting and safety functions.

5. SAFETY INFORMATION AND PROTECTION SYSTEMS

The AQQA Fish Tank Heater incorporates advanced safety features to protect your aquatic environment.

5.1. Overheat Protection

If the water temperature rapidly exceeds 95°F (35°C), the LED screen will flash “EE” and the heater will automatically stop heating to prevent harm to your aquatic life.



Image 5.1: Visual explanation of the overheat protection system and the 'EE' error display.

5.2. Dry-Run Protection

If the fish heater is not fully submerged in water, the controller will display “Er” and cease operation to prevent dry-burning and potential damage to the unit.

Er

Dry-Run Protection

Auto power-off with "Er" warning when out of Water.



Image 5.2: Visual explanation of the dry-run protection system and the 'Er' error display.

6. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your heater:

- Always ensure the heater is fully submerged before powering on.
- Maintain proper water circulation around the heater for even heat distribution.
- After turning off the heater, allow it to cool in the water for 15–30 minutes before removing it. This prevents residual heat from potentially melting the protective shell.
- Regularly check the heater and controller for any signs of damage or wear.
- Keep away from children.

7. TROUBLESHOOTING

Refer to the following common issues and their solutions:

Problem	Error Code / Indication	Solution
Water temperature too high	"EE" flashes on LED screen	Heater has automatically stopped. Check ambient temperature and ensure proper tank size for heater wattage. Allow water to cool naturally.
Heater not fully submerged	"Er" flashes on LED screen	Ensure the heater is completely submerged in water. Check water level and adjust if necessary.
Temperature not changing	Controller is locked	Long press the lock button () for 1-3 seconds to unlock the controller and adjust settings.
Inaccurate temperature reading	N/A	Ensure the heater is not placed directly in sand or mud, which can interfere with sensor accuracy. Verify water circulation.

8. PRODUCT SPECIFICATIONS

Image 8.1: Overview of product dimensions and specifications for different wattage models.

Specification	Detail
Model Number	GUS-AQ201-500W-US
Power	500W
Applicable Aquarium Size	55-130 Gallons (200-500L)
Voltage	AC 110-120V/60Hz (US Standard)
Temperature Range	59°F–94°F (15°C–34°C)
Temperature Accuracy	±1°F/±1°C
Material	Quartz Glass, ABS Protective Shell
Color	Black
Item Weight	1.92 pounds
Item Package Dimensions	13.3 x 7.4 x 2.3 inches
Manufacturer	AQQA

9. WARRANTY AND SUPPORT

For any questions, technical support, or warranty inquiries regarding your AQQA Fish Tank Heater, please contact the manufacturer directly through their official website or the retailer where the product was purchased. Please retain your proof of purchase for warranty claims.