

hygger HG097

hygger HG097 25W Small Submersible Aquarium Heater User Manual

Model: HG097-25W

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your hygger HG097 25W Small Submersible Aquarium Heater. Designed for small aquariums up to 5 gallons, including betta fish tanks and turtle habitats, this heater features an adjustable temperature external controller and an LED display for precise temperature management. Please read this manual thoroughly before installation and operation to ensure optimal performance and safety.

2. SAFETY INFORMATION

Adhering to these safety guidelines is crucial for preventing damage to the product and ensuring the well-being of your aquatic pets.

- **Full Submersion:** Ensure the heater is 100% submerged in water before plugging it into a power outlet. Operating the heater out of water will trigger the 'Er' error code and cause it to shut off.
- **Overheat Protection:** The heater is equipped with an overheat protection system. If the water temperature exceeds 93°F (34°C), the heater will stop heating and display 'HH' to prevent harm to aquatic life.
- **Power Disconnection:** Always unplug the heater from the power source before performing any maintenance, cleaning, or when handling the aquarium water.
- **Cool Down Period:** Allow the heater to cool down for 10-20 minutes after unplugging it and before removing it from the water for cleaning or tank changes.
- **Electrical Safety:** Do not operate the heater if the cord or plug is damaged. Do not attempt to repair the heater yourself. Contact customer support for assistance.
- **Intended Use:** This heater is designed for use in freshwater and saltwater aquariums. Do not use it for purposes other than heating aquarium water.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package:

- hygger HG097 Submersible Aquarium Heater Unit
 - External Temperature Controller with LED Display
 - Two Suction Cups for mounting
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4. PRODUCT OVERVIEW AND FEATURES

The hygger HG097 heater is engineered for reliability and ease of use in small aquatic environments.



Image 4.1: The hygger HG097 25W aquarium heater unit and its external temperature controller.

Convenient Temperature Display & Adjustment



Image 4.2: Illustration of the external controller for temperature adjustment and the LED display showing real-time temperature.

- **Compact Design:** Slim, flat profile (4.6"x 2.7"x 0.9") ideal for small and shallow tanks, including gravel-free setups.
- **Precise Temperature Control:** Built-in temperature sensor with 1°F accuracy. External adjustment button allows setting temperatures from 59-93°F (15-34°C).
- **LED Display:** Digital LED screen shows real-time water temperature and the set temperature. An indicator light glows red during heating and green when the set temperature is reached.
- **Multiple Safety Protections:** Includes overheating protection (stops heating above 93°F, displays 'HH') and out-of-water protection (shuts off when exposed to air, displays 'Er').
- **Power-off Memory Function:** Retains the last temperature setting after a power interruption, eliminating the need for re-adjustment.
- **Durable Construction:** Made with heat-resistant, anti-shattering quartz glass and a high-quality ABS plastic shell to prevent scalding and ensure longevity. Features a nickel-chromium heating wire for efficient heat transfer.

Multiple Protections



Run Dry Protection

When the heater is exposed to air(out of the water), the heater will shut off automatically and flash "Er"code.

Overheat Protection

When the water temperature exceed 93°F, the heater will stop heating and flash "EE" code untill the temp. declines to below 93 °F.

Memory Function

In case of a power cut, when the power recovers the heater will follow the last setting. This relieves the users from worry of "cooking fish" after power cut!



Image 4.3: Visual representation of the heater's run dry protection, overheat protection, and memory function.

Durable & Safe Material

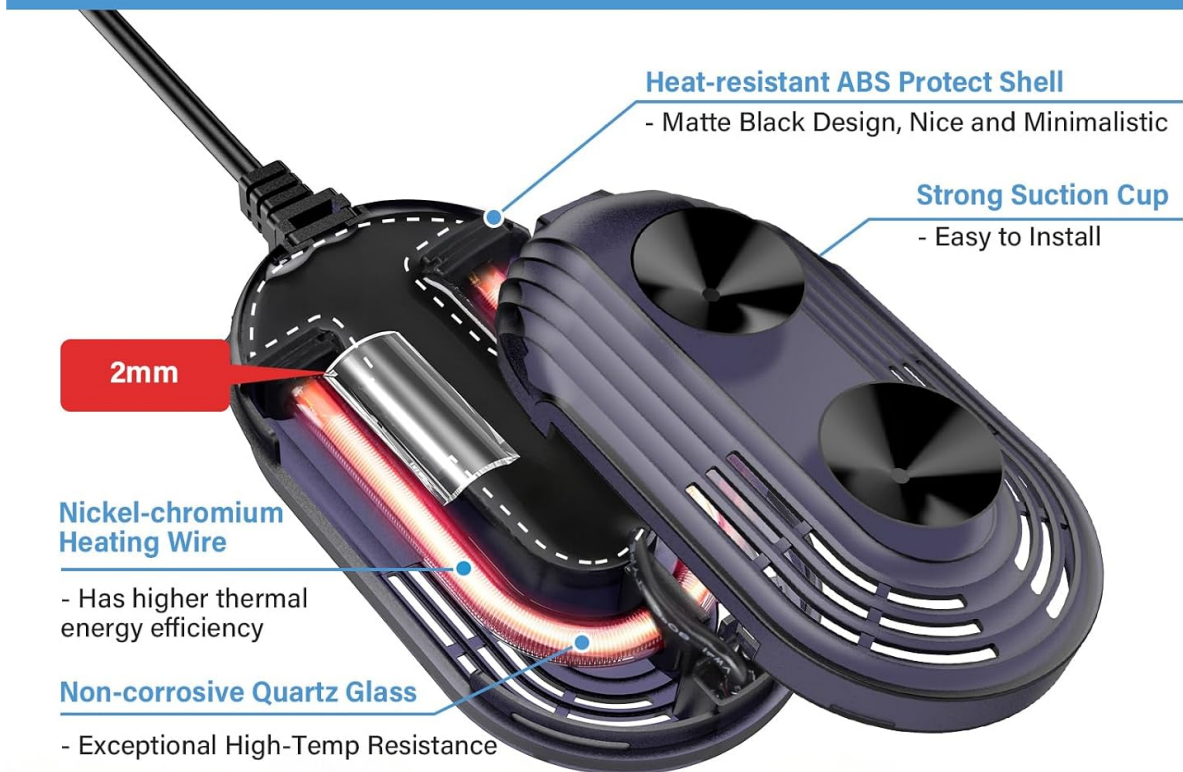


Image 4.4: Diagram illustrating the durable components of the heater, including the heat-resistant ABS shell, nickel-chromium heating wire, and non-corrosive quartz glass.

5. SETUP INSTRUCTIONS

Follow these steps to properly install your hygger aquarium heater:

1. **Placement:** Position the heater inside your aquarium. It can be placed vertically or horizontally. For optimal heat distribution, place it in an area with good water circulation.
2. **Secure with Suction Cups:** Use the two strong suction cups to firmly attach the heater to the inner wall of your aquarium. Ensure it is securely fixed and will not detach.
3. **Ensure Full Submersion:** Verify that the entire heater unit is completely submerged in water. The water level must be above the minimum water level mark on the heater.
4. **Connect Power:** Once the heater is fully submerged and secured, plug the power cord into a standard 110-120V/60Hz electrical outlet.

Mini Heater for Small Tanks



Image 5.1: Example of the mini heater placed in a small aquarium, demonstrating its compact size and suitability for low water levels.

6. OPERATING INSTRUCTIONS

Using the external controller to manage your aquarium's temperature is straightforward:

1. **Power On:** After plugging in the heater, the LED display on the external controller will light up, showing the current water temperature.
2. **Set Temperature:** Press the 'SET' button on the external controller. The display will flash the currently set temperature. Press the 'SET' button repeatedly to cycle through the desired temperature range (59-93°F / 15-34°C). Stop pressing when your desired temperature is displayed. The heater will automatically save the setting after a few seconds of inactivity.
3. **Heating Indicator:** When the heater is actively heating the water, the indicator light on the controller will glow **red**.
4. **Temperature Reached Indicator:** Once the water reaches the set temperature, the indicator light will turn **green**, and the heater will maintain this temperature.

5. **Monitoring:** The LED display continuously shows the real-time water temperature. You can press the 'SET' button briefly to view the set temperature at any time.

7. MAINTENANCE

Regular cleaning and maintenance will ensure the longevity and efficiency of your heater:

1. **Disconnect Power:** Always unplug the heater from the power outlet before attempting any cleaning or maintenance.
2. **Cool Down:** Allow the heater to cool down for 10-20 minutes after unplugging it and before removing it from the water. This prevents thermal shock and potential injury.
3. **Remove from Tank:** Carefully remove the heater from the aquarium.
4. **Open Cover:** Gently hold the heater and open the protective cover.
5. **Clean:** Use a soft brush or cloth to clean any algae or mineral deposits from the heating element and the protective shell. Avoid using harsh chemicals or abrasive materials.
6. **Close Cover:** Ensure the two slots at the end of the heating rod are aligned with the groove, then press down to securely close the cover.
7. **Reinstall:** Place the cleaned heater back into the aquarium, ensuring full submersion, and then plug it back in.



Image 7.1: Visual guide for opening, cleaning, and closing the heater cover.

8. TROUBLESHOOTING

Refer to this section for common issues and their solutions:

Problem	LED Display	Possible Cause	Solution
Heater not heating / Displaying error	'Er'	Heater is not fully submerged in water.	Ensure the heater is completely underwater. Adjust water level or heater position.

Problem	LED Display	Possible Cause	Solution
Heater stopped heating / Displaying error	'HH'	Water temperature exceeds 93°F (34°C).	This is a safety feature. The heater will resume operation when the water temperature drops below 93°F. Check for external heat sources or reduce ambient room temperature if necessary.
Heater not turning on	No display	No power supply.	Check if the power plug is securely inserted into the outlet. Test the outlet with another device.
Inconsistent temperature	Fluctuating readings	Poor water circulation or sensor interference.	Ensure adequate water flow around the heater. Avoid placing the heater directly next to a filter output or intake.

9. SPECIFICATIONS

Technical details for the hygger HG097 25W Aquarium Heater:

hygger
Heater Guidelines



Model	HG097				
Power	15W	25W	50W	100W	150W
Application	1-2.5Gal (3.5-9.5L)	2-5Gal (7.5-19L)	5-10Gal (19-38L)	10-20Gal (38-75L)	20-25Gal (75-95L)
Volt./Freq	US standard: AC 110-120V/60Hz				
Cord length	2.6ft+3.9ft(0.8m+1.2m)				
Temp accuracy	±1°F(±1°C)				
Control range	59-93°F(15-34°C)				
Heating rod dimension	4.6"x2.7"x0.9"(1.8x1x0.4cm)				

Image 9.1: Detailed specifications and guidelines for the hygger HG097 heater series.

Specification	Detail
Model	HG097
Power (for this unit)	25W
Recommended Tank Size	2.5-5 Gallons (7.5-19 Liters)
Voltage/Frequency	AC 110-120V/60Hz (US Standard)
Cord Length	2.6 ft (heater to controller) + 3.9 ft (controller to plug)
Temperature Accuracy	±1°F (±1°C)
Control Range	59-93°F (15-34°C)
Heating Rod Dimensions	4.6" x 2.7" x 0.9" (1.8 x 1 x 0.4 cm)
Material	ABS, Quartz Glass

Specification	Detail
Item Weight	10 ounces

10. WARRANTY AND SUPPORT

hygger is committed to providing high-quality products and excellent customer service.

- **Warranty:** This product comes with a 12-month warranty from the date of purchase. The warranty covers manufacturing defects and malfunctions under normal use.
- **Exclusions:** The warranty does not cover damage caused by improper installation, misuse, neglect, unauthorized repairs, or natural disasters.
- **Customer Support:** For any questions, concerns, or warranty claims, please contact hygger customer support. Have your model number (HG097) and purchase information ready when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

