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hygger HG-031

Hygger Small Aquarium Betta Heater Instruction Manual

Model: HG-031

Brand: hygger

1. Product Overview

The hygger HG-031 series submersible aquarium heater is designed to maintain a stable water temperature in your fish tank. It features a durable quartz glass construction, an external temperature controller with an LED digital display, and built-in safety protections against dry running and overheating. This heater is suitable for both freshwater and marine saltwater environments.



Figure 1: Hygger HG-031 Aquarium Heater and External Controller.

2. Key Features

- **LED Digital Display:** Real-time water temperature monitoring.
- **External Temperature Controller:** Easy and safe temperature adjustment without getting hands wet.
- **Premium Quartz Glass:** 2mm thickened, explosion-proof, and corrosion-resistant for durability and safety.
- **Dry Run Protection:** Automatically shuts off when water level is too low (Error Code: E1).
- **Overheating Protection:** Automatically shuts off if water temperature exceeds 95°F (35°C) (Error Code: HH).
- **Compact Size:** "Thumb size" design (4.1" / 10.5cm for 10W-50W models) ideal for nano and betta tanks.
- **Versatile Use:** Suitable for both fresh and marine water aquariums.

3. Product Components

The package includes:

- Hygger HG-031 Aquarium Heater unit
- External Temperature Controller (integrated with power cord)
- Suction Cups for mounting
- Instruction Manual



Figure 2: Included components of the Hygger HG-031 heater.

4. Installation

1. **Placement:** Ensure the heater is fully submerged in the aquarium water. It can be installed vertically on the tank inner side or horizontally on the tank bottom using the provided suction cups.
2. **Secure Mounting:** Use the strong suction cups to firmly attach the heater to the desired location within the tank.
3. **Power Connection:** Once the heater is securely placed and fully submerged, connect the power plug to a suitable power outlet.



Figure 3: Proper placement of the heater for full submersion.



Figure 4: Important guidelines for heater submersion and water level.

5. Operation

1. **Power On:** After installation, plug in the heater. The LED digital display on the external controller will show the current water temperature.
2. **Setting Temperature:** Use the "SET" button on the external controller to adjust the target temperature. The temperature range is 59-93°F (15-34°C). Short press the button to cycle through desired temperatures.
3. **Heating Indicator:** A red light on the controller indicates that the heater is actively heating the water. A blue light indicates that the heater is maintaining a constant temperature and is not actively heating.



Figure 5: LED Digital Display and External Temperature Setting Button.

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Video 1: Demonstrates the installation and temperature setting of the Hygger HG-031 aquarium heater.

6. Maintenance

To ensure optimal performance and longevity of your hygger aquarium heater, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically clean the heater surface to remove algae and mineral buildup.
- **Power Disconnection:** Always unplug the heater from the power outlet before performing any cleaning,

maintenance, or water changes in the aquarium.

- **Inspection:** Regularly inspect the heater for any signs of damage, such as cracks in the glass or frayed wires. Do not use if damaged.

7. Troubleshooting

The external controller provides error codes to help diagnose common issues:

Error Code	Description	Solution
HH	Overheating Protection: Water temperature exceeds 95°F (35°C).	The heater will stop heating automatically. It will resume operation when the water temperature drops below 95°F. Check for external heat sources or if the heater wattage is too high for the tank size.
E1	Dry Run Protection: Heater is out of water or water level is too low.	The heater will automatically power off. Ensure the heater is fully submerged in water. It will resume functioning when fully submerged again.



Figure 6: Visual representation of HH (overheating) and E1 (dry run) error codes.

8. Specifications

Specification	Detail
Model Number	HG-031
Brand	hygger
Material	Quartz Glass
Color	Black
Temperature Range	59-93°F (15-34°C)
Power Cable Length	5.3 ft (1ft + 4.3ft)

Specification	Detail
Voltage	AC 110-120V/60Hz
Item Weight	9.1 ounces
Product Dimensions (10W-50W)	1.2 x 1.2 x 4.14 inches
Product Dimensions (100W)	1.2 x 1.2 x 5.3 inches



Figure 7: Heater dimensions for various wattage models.



Power	Heater Length	FIsh Tank Size	Cable Length	Voltage	Temp Range
10W	4.14"x1.2"	1-5 Gal	1ft+4.3ft	AC 110-120 V/60Hz	59°F~93°F (15~34℃)
25W		5-10 Gal			
50W		8-16 Gal			
100W	5.3"x1.2"	10-26 Gal			

Figure 8: Detailed specifications table for different wattage models.

9. Safety Information

- Always ensure the heater is fully submerged before plugging it in.
- Do not operate the heater if the glass tube is cracked or damaged.
- Unplug the heater before performing any maintenance, cleaning, or water changes in the aquarium.
- Keep out of reach of children.
- This product is for indoor use only.

10. Warranty and Support

Hygger products are designed for reliability and performance. For any questions, technical support, or warranty claims, please contact hygger customer service. Refer to the product packaging or the official hygger website for the most current

contact information.

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