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> Hygger Smart Mini Aquarium Heater User Manual

## hygger HG167

# Hygger Smart Mini Aquarium Heater User Manual

Model: HG167 | Brand: hygger

## 1. INTRODUCTION

The hygger Smart Mini Aquarium Heater is an advanced heating solution designed for small to medium-sized aquariums, specifically 8 to 16 gallons. This submersible heater ensures a stable and precise temperature for your aquatic pets, featuring intelligent controls and robust safety mechanisms. Its compact design allows for discreet placement without occupying significant tank space.



Figure 1: Hygger Smart Mini Aquarium Heater and its external controller.

## 2. PRODUCT FEATURES

- **Smart and Mini Design:** Suitable for 8 to 16 gallons of saltwater and freshwater aquariums. Its mini size ensures minimal space occupation.
- **Precise Temperature Control:** The intelligent temperature controller displays current water temperature, set temperature, heating status, and protection signs. Temperature range: 59-93°F/15-34°C, accuracy: within 1°F. Automatically maintains constant temperature once set.
- **Multiple Security Protections:**
  - **Anti-Dry Burning Function:** Automatically powers off and displays "L1" flashing if the heater is out of water.
  - **Overheating Protection:** Displays "HH" flashing if temperature exceeds 93°F.
  - **Low Temperature Protection:** Displays "LL" flashing if temperature is below 59°F.
  - **Memory Function:** Retains the last temperature setting even after power loss.

- **°F and °C Switchable:** Easily switch between Fahrenheit and Celsius.
- **Reliable and Durable Construction:** Made of explosion-proof quartz glass material and high-temperature resistant nickel-chromium heating wire, with silicon carbide thermal conductivity for safer heating and longer service life.

## LED Intelligent temperature controller

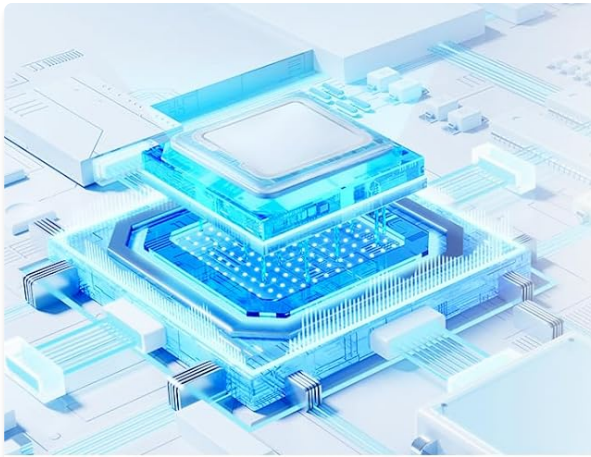
Temperature range: 59°F-93°F/15°C-34°C



### SECURITY PROTECTIONS

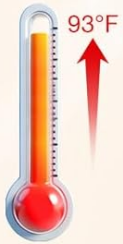
Fault code	Explanation	Solutions
L1 is flashing	Out of the water	when heating Fully submerged in water
HH is flashing	Tank temperature reaches 94°F(35°C)	Lower the temperature
LL is flashing	The Tank temperature below 59°F(15°C)	Raise the temperature

Figure 2: Detailed view of the LED intelligent temperature controller and its fault codes.



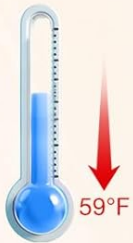
# ACCURATE TEMPERATURE CONTROL SYSTEM

Temperature control accuracy  
 $\pm 1^{\circ}\text{F}$  ( $\pm 1^{\circ}\text{C}$ )



## OVERHEATING PROTECTION

When the temperature exceeds  $93^{\circ}\text{F}$ , the controller will display "HH" flashing



## LOW TEMPERATURE PROTECTION

When the temperature is below  $59^{\circ}\text{F}$ , the controller will display "LL" flashing

Figure 3: Visual representation of overheating and low temperature protection.



## ANTI DRY BURNING FUNCTION

When the heater is out of the water, the aquarium heater will automatically power off and the controller will display "L1" flashing.



## MENORY FUNCTION

the controller will keep the previous setting when the power falled. **No resetting is required.**



Figure 4: Explanation of the anti-dry burning and memory functions.

### 3. PACKAGE CONTENTS

The hygger Smart Mini Aquarium Heater package includes all necessary accessories for immediate setup:

- 1x Aquarium Heater
- 1x Intelligent Controller
- 3x Suction Cups (one extra for replacement)
- 1x User Manual (this document)

### 4. SETUP AND INSTALLATION

Follow these steps to properly install your hygger Smart Mini Aquarium Heater:

1. **Attach Suction Cups:** Securely attach the two primary suction cups to the back of the heater unit.
2. **Placement in Tank:** Submerge the heater fully in the aquarium water. Use the suction cups to firmly attach the heater to the inside glass wall of your tank. Ensure the heater is placed in an area with good water circulation for even heat distribution.
3. **Controller Placement:** The intelligent controller should remain outside the water. Place it in a dry, accessible location near the aquarium.
4. **Power Connection:** Plug the heater's power cord into a suitable electrical outlet.

## Mini Size Not Take Up Tank Space

For small fish tank



For shallow water tank



Figure 5: The compact size of the heater allows for versatile placement in different aquarium setups.

### Installation Precautions:

- Ensure the heater is always fully submerged when operating.
- Avoid burying the heater in substrate or covering it with debris.
- The heater can be installed vertically or laid flat, but avoid laying it upside down or sideways.

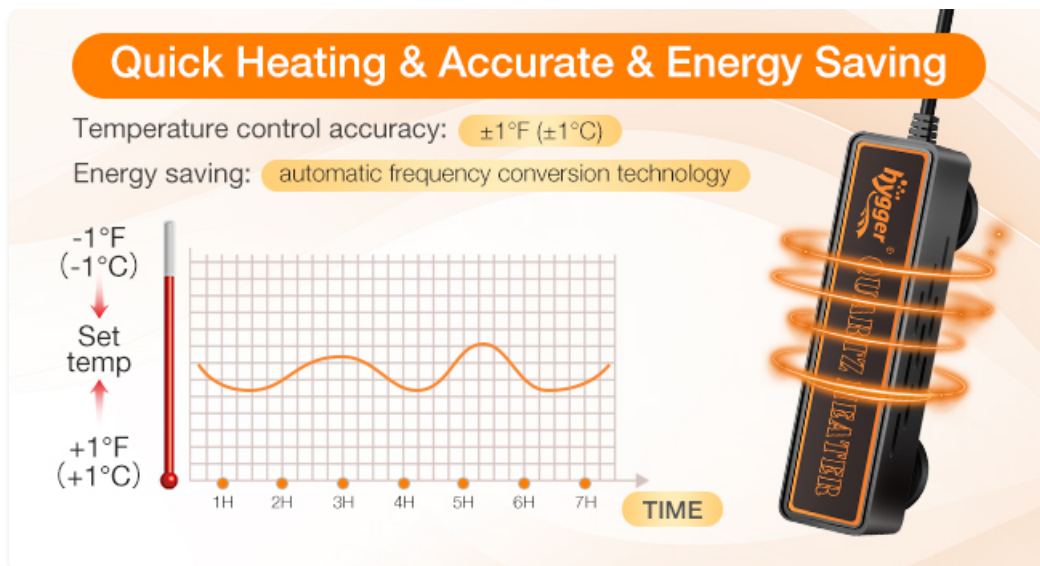


Figure 6: Correct and incorrect installation methods for the heater.

### Installation Video:

Your browser does not support the video tag.

Video 1: Official installation and overview of the hygger Smart Mini Aquarium Heater by Hysupplies.

## 5. OPERATING INSTRUCTIONS

The intelligent controller allows for easy temperature adjustment and monitoring:

1. **Power On:** Once plugged in, the controller will automatically power on and display the current water temperature.
2. **Set Temperature:** Press the button on the controller to cycle through desired temperature settings. Each press increases the set temperature by one degree. The display will show the set temperature.
3. **Heating Status:** The controller will display the current water temperature. When the heater is actively heating, the 'Heat' indicator will illuminate red. When the set temperature is reached and maintained, the 'Keep' indicator will illuminate blue.
4. **Temperature Unit Conversion:** To switch between Fahrenheit (°F) and Celsius (°C), press and hold the button for 8 seconds.

# LED Intelligent temperature controller

Temperature range: 59°F-93°F/15°C-34°C



## SECURITY PROTECTIONS

Fault code	Explanation	Solutions
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Figure 7: Operating interface of the intelligent temperature controller.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your heater:

- **Cleaning:** Periodically unplug the heater and remove it from the tank. Gently wipe down the heater unit with a soft cloth to remove any algae or mineral buildup. Do not use harsh chemicals or abrasive materials.
- **Inspect Cords:** Regularly check the power cord and controller cable for any signs of damage, fraying, or kinks. If any damage is found, discontinue use immediately.
- **Suction Cups:** Ensure suction cups remain firmly attached to the tank wall. Replace if they lose their grip.

## 7. TROUBLESHOOTING

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

Fault Code	Explanation	Solution
L1 (flashing)	Heater is out of water (Dry Burning Protection activated).	Ensure the heater is fully submerged in water.
HH (flashing)	Water temperature exceeds 93°F (Overheating Protection activated).	Lower the water temperature in the tank. Check for external heat sources.
LL (flashing)	Water temperature is below 59°F (Low Temperature Protection activated).	Raise the water temperature in the tank. Check ambient room temperature.

If the issue persists after attempting the suggested solutions, please contact customer support.

## 8. SPECIFICATIONS

Specification	Detail
Model Name	HG167
Power	50W
Applicable Tank Size	8-16 Gallons
Voltage/Frequency	AC120V/60Hz (US standard)
Temperature Accuracy	±1°F (±1°C)
Control Range	59-93°F (15-34°C)
Item Weight	11.7 ounces
Item Package Dimensions	6.42 x 5.12 x 2.44 inches
Manufacturer	hygger
Country of Origin	China

# How to choose size?



Power	50W	100W	150W
Applicable	8-16 Gal	10-26 Gal	15-40 Gal
Volt./Freg	US standard: AC120V/60Hz		
Temp accuracy	±1°F(±1°C)		
Control range	59°F-93°F(15°C-34°C)		

Figure 8: Size chart and detailed specifications for different wattage models.

## 9. WARRANTY AND SUPPORT

The hygger Smart Mini Aquarium Heater comes with a **24-month warranty** from the manufacturer. If you encounter any problems with your product or require assistance, please contact hygger customer support through the retailer's platform or the official hygger website. Please have your purchase details and model number (HG167) ready when contacting support.