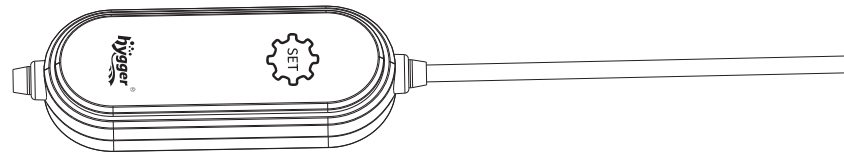
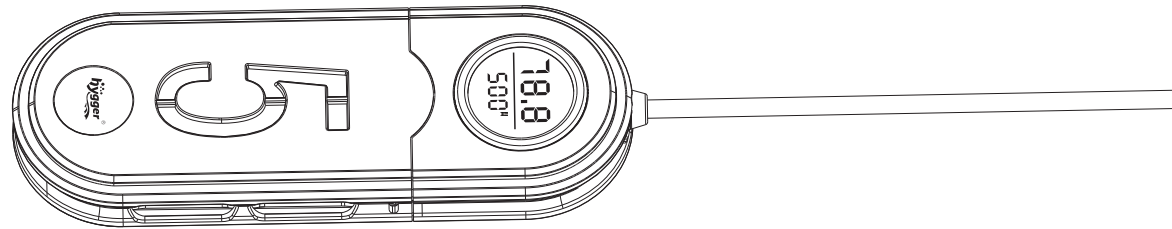




# HG-011 USER MANUAL

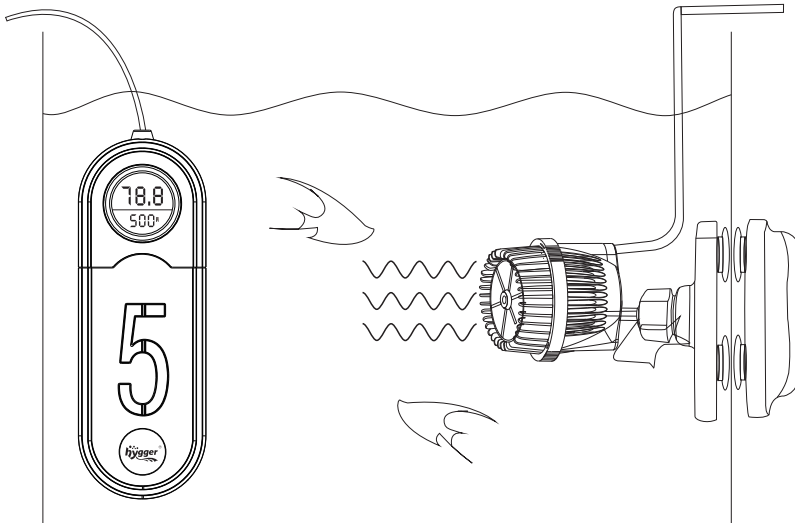
**HYGGER Smart Variable Frequency Titanium Heater**



Hygger smart variable frequency titanium heater is safety and energy-saving which is perfect for aquariums.

## Attentions :

- 1.The heater must be fully submersed when it's working and the maximum submersed depth is 80CM/31.5inch.
- 2.Unplug the heater and wait for 15 minutes before changing water or removing the heater.
- 3.Please make sure there is enough water flow and water circulation in your fish tank when using the heater .
- 4.Don't place the heating rod at sump tank, otherwise it will damage the heater when the water level is too low.
- 5.**Reminder:** The controller is not waterproof, please keep it away from water.



# 1.PRODUCT FEATURES

**Fully submersible:** The heating rod must be completely immersed in water.

**Rapid heating rate:** The heating rod is made of titanium steel material and heat water fast.

**Dual relay design:** One heater with two relay is like two hearts for one person. It is more safe for the aquariums.

**Digital temperature display:** Digital display shows real-time water temperature and power clearly on the heating rod.

**Variable frequency design saves more energy:** The heater stops heating once it reach to set temperature. Then the heater automatically enters to variable frequency mode with low power heating to save energy when the water temperature is 0.5°F-1°F lower than set temp.

**Auto power off and warning signals:** When the heating rod is exposed to air, the heater will shut off automatically and warning . When the heating rod is completely immersible, it will start working again.It will abnormal alarm when it's over temperature.

**Memory function:** After shutting off, the heater will keep the last setting once power on again.

**Equipped with ABS protective sleeve:** Prevents small fish from danger.

**Suitable for freshwater only.**

# 2.PRODUCT PARAMETERS:

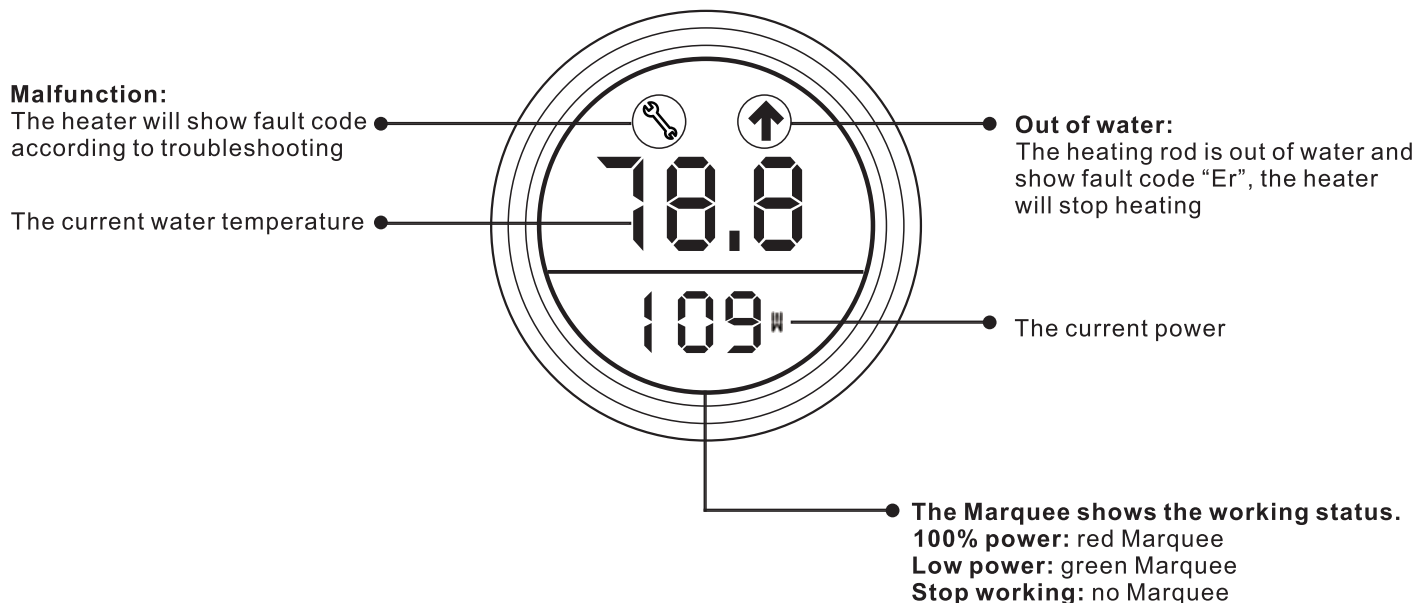
<b>Model No.:</b>	<b>HG-011</b>	
<b>Power:</b>	500W	800W
<b>Voltage</b>	110V/60Hz	220V-240V /50Hz

<b>Cord length:</b>	4.9FT+3.9FT (1.5M+1.2M)	
<b>Application:</b>	60-120 Gal ( 220-450 L)	120-180 Gal (450-680 L)
<b>Temp Accuracy:</b>	±0.1°F / ±0.1°C	
<b>Control Range:</b>	70.0~94.0°F / 20-34°C	

### 3. USE INSTRUCTION:

- Before plugging the appliance into the power, please install the appliance safely.
- Refer to the recommended tank and heater size chart to choose the suitable heater for the desired temperature.
- Place the heating rod into the tank then plug into the power and the water temperature will be displayed on the heating rod.
- Press the “SET” button to set you desired temperature, you will hear the beeping sound and the digital temperature on the screen is flashing. You can press the “SET” button to set between 70~94°F in a cycle. Press one time can change 1°F, after setting for 3 seconds, it will automatically exit the temperature setting.

- For example, when you set 82°F, press the “SET” button until 82 displayed on the digital display. After 3 seconds the display will back to show the real-time water temperature, the heater will work by 100% power until it close to 82°F. During this process the red Marquee bright. When the water temperature reaches to 82°F, the Marquee is turn off, the screen will display the water temperature and the power is 0. Then the water temperature slow down between 81-81.5°F, the heater will work again for low power until it reaches 82°F. At this process, the green Marquee will bright.





The heater is not working.



Working by low power,  
green Marquee bright



Working by 100% power,  
red Marquee bright

## 4. Trouble shooting

Error Code	Failure cause	Solution
<b>Er &amp; beeping</b>	Out of water Sensor is failure	Place the heating rod fully submersible Re-plug in,if it can't restore discard the heater
<b>The heating rod don't display Er, when it out of water</b>	No warning sound when its out of water	Remove the cover and clean the heater. If it still don't work ,please return.
<b>Water temperature flashing &amp; beeping</b>	The water temperature is over 96.8°F ,maybe Water recycle is not very well or put the heating rod on wrong position	Place the heating rod on a position where the water circulation is well, when water temperature is lower than 96.8°F ,it will restore.

<b>Ec</b>	Components failure	Re-plug in. if it can't restore discard the heater
<b>E3</b>	Relay failure	Re-plug in. if it can't restore discard the heater
<b>H1/H2</b>	Temperature sensor failure	Re-plug in. if it can't restore discard the heater
<b>White or yellow dirt adheres</b>	Incrustation scale	Wash the heater in clean water

## 5. PACKAGE INCLUDED

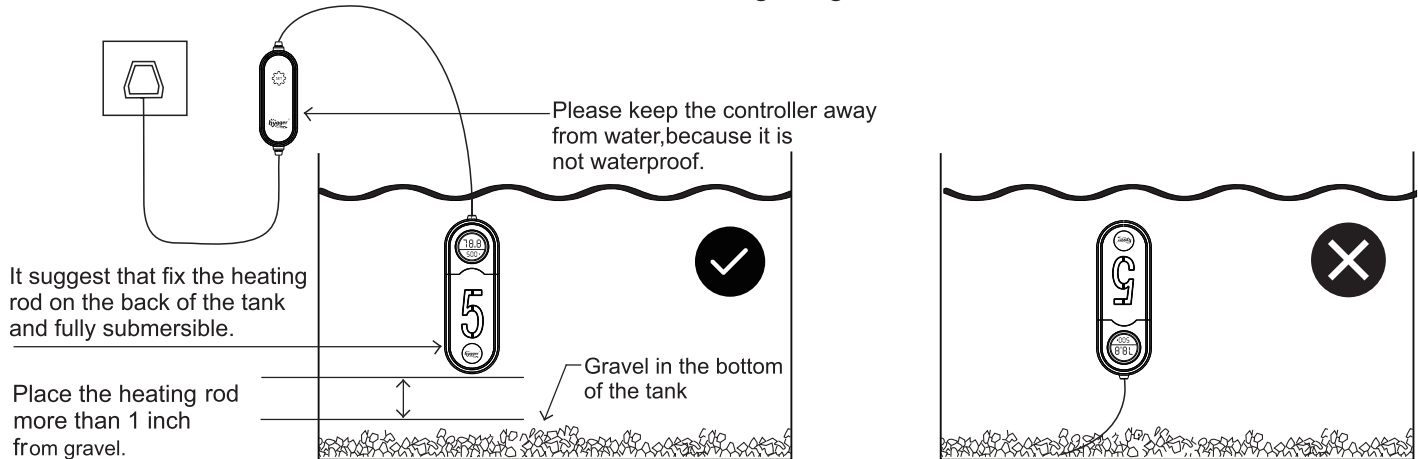
1×Heater

2× Suction cup

1× User manual

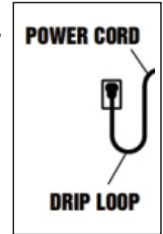
## 6. APPLICATION

A. Place the heater as shown in the following diagram:



## 7.ATTENTIONS:

- √ Please check all the items to inspect condition when unboxing the package.
- √ Please read the instructions carefully. Use and follow the instructions strictly.
- √ Please choose a suitable heater rated for your aquarium.
- √ Please place the heating rod in water flow and don't bury it in substrate.
- √ Please place the heating rod far away from magnetic brush, because the magnetic possible damage the heating element.
- √ Please place the heating rod fully submersible when it's on duty. Unplug the heater and wait for 15 minutes before changing water or removing the heater.
- √ Please keep in mind that the heater can be turned off automatically when exposed to air, but it is a last resort and should be avoided.
- √ After using of the heater, calcium carbonate contained in algae or moss may clump and adhere to the heating rod.
- √ If dirt adheres to the heating rod, use a sponge or cloth and water to wipe it. Do not use alcohol or other chemicals as this may damage the heater harm fish or livestock.
- √ When used for a prolonged period with dirt adhered to the heating element, be aware that it may cause failure due to the inability to control the temperature correctly.





**8.WARNING:** To guard against injury, basic safety precautions should be observed including the following:

1. Read and follow this user manual strictly.
2. **DANGER**-To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt to repair yourself; return the heater to an authorized service facility for service or discard the heater.
  - A. If the heater shows any sign of abnormal operation, unplug the power and remove the heater from water after 15 minutes.
  - B. Carefully examine the heater after installation. It should not be plugged in if there is water on parts not intended to be wet.
  - C. Do not operate the heater if it has a damaged cord or plug, if it is malfunctioning, or if it is dropped or damaged in any manner. The power cord of this heater cannot be replaced; if the cord is damaged, the heater should be discarded.
  - D. To avoid the possibility of the heater plug getting wet, position aquarium stand and tank to one side of a wall mounted outlet to prevent water from dripping onto the outlet or plug. A “drip loop”, shown in the figure below, should be arranged by the user for each cord connecting the heater to the outlet. The “drip loop” is the part of the cord below the level of the outlet, or the connector. If an extension cord is used, to prevent water traveling along the cord and coming in contact with the outlet. If the plug or outlet does get wet, **DO NOT** unplug the cord. Disconnect the fuse to the circuit breaker that supplies power to the heater. Then unplug and examine for the presence of water in the outlet.

3. Close supervision is necessary when the heater is used near children. Daily supervision is necessary when the heater is being used.
4. This heater is not allowed to be used by persons (including children) 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. To avoid injury, do not contact moving parts or hot parts.
6. Always unplug the heater from the outlet when not in use, before putting on or taking off parts, before maintenance, or placing hands in the water. Never yank the cord to pull plug from outlet. Grasp the plug and pull gently to disconnect.
7. Do not use the heater for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition and will void the warranty.
8. Do not install or store the heater where it will be exposed to the weather or to temperatures below freezing.
9. Only use in freshwater aquariums; do not use the heater in other liquids.
10. Make sure the heater is securely installed before operating it.
11. Read and observe all the important notices on the heater.
12. If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the heater rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
13. The heater is intended FOR HOUSEHOLD USE ONLY.
14. SAVE THIS USER MANUAL.

## 9.DISPOSAL

Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product must not be disposed together with the domestic waste. This product has to be disposed at an authorized place for recycling of electrical and electronic appliances. By collecting and recycling waste, you help save natural resources, and make sure the product is disposed in an environmentally friendly way.



Thank you for choosing HYGGER, making aquarium keeping easier one product at a time.

**If you have any problems or suggestions for the heater, please contact us by email before leaving feedback or opening a case, it will be the fastest way to solve your problem.**

**If you are satisfied with our product, please leave positive feedback for our product, in order to let more customers enjoy it. Thanks again!**

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