



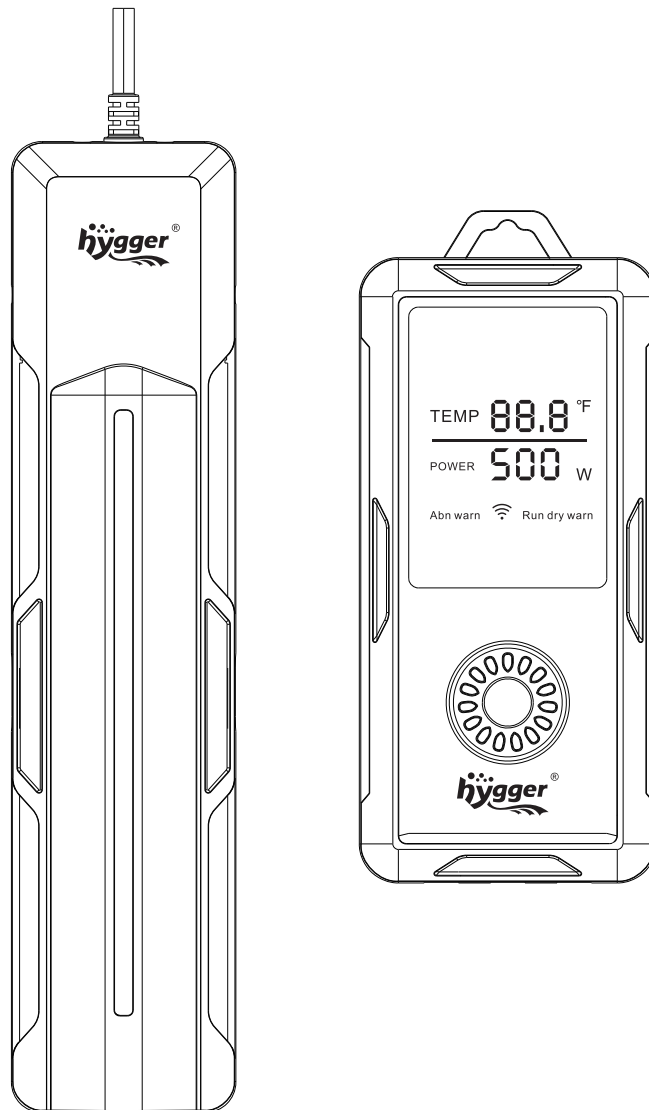
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HG159 USER MANUAL

hygger Wire Drawing Aquarium Heater



hygger Wire Drawing Aquarium Heater is the perfect aquarium heater for your freshwater and saltwater aquariums.

****Reminder: The controller is not waterproof, do not allow it to get wet****



Attentions:

- 1) The heater must be fully submerged in the water when it is in operation. Unplug the heater and wait 15 minutes before changing the water or removing the heater from the aquarium.
- 2) Our heating rod should be placed where the water flows quickly or at the water inlet and tilted at an angle of 30 degrees as much as possible so that the temperature measurement is more accurate.
- 3) Please do not bury the heating rod or use it near the sand.

1. PRODUCT FEATURES

Automatic protection system: When the heater malfunctions and the temperature rises, the system will trigger the IPS after 10 seconds. At the same time, the controller will display IPS, the Abn warning icon will flash, and the heater will beep.

Fully submerged in the water: To ensure proper operation, the heater must be fully submerged when it is in operation.

Rapid thermal accumulation: The heating rod is made of explosion-proof quartz and a highly temperature-resistant nickel-chromium heating wire with a heat conductor made of silicon carbide; as a result, the water heats up faster and the heating rod is safer and more durable. The double heating rod makes it a more powerful heater.

Digital LED temperature display: The LED display shows the set temperature, current temperature, and real-time power. Long press the button for 5 seconds to enter the temperature setting, and short press the rotary knob to increase the temperature by 1°F/1°C. Turn the knob left/right to decrease/increase the temperature by 0.1°F/0.1°C.

Precise temperature control: When the current water temperature falls 1°F/0.5°C below the set temperature, the heating rod starts to heat, and the POWER area of the display shows the heating POWER. When the preset water temperature has been reached, the heating rod stops heating, and the POWER area shows 0. The heating rod temperature ranges from 59°F(15°C) to a maximum of 93°F(34°C) for greater safety for your fish stock. When the water temperature reaches 97.7°F(36.5°C), the heater emits a buzzing sound as a warning and stops heating automatically. The controller also displays "Abn warn" and "Run dry warn."

Multiple heating modes:

1. Standby mode: The heater enters standby mode when the water temperature is above or equal to the set temperature or drops below 1°F (0.5°C) after heating to the set temperature. At this time, the heating rod is not heating.
2. Full power mode: If the water temperature is below the set temperature and the temperature difference between the water temperature and the set temperature is more than 1°F (0.5°C), the heating rod heats at full power.

Accurate, reliable, and durable: The heating rod contains two temperature probes for more precise measurements. The quartz tubes of premium quality have been precisely designed scientifically. With a double relay, double circuit design, and more powerful control and protection, the service life of the relay can reach 100,000 times. This heater will work reliably for years.

Trigger self-protection: Dry-running protection, overtemperature alarm, temperature probe self-test alarm, abnormal communication signal alarm, earth leakage protection. The alarm mode is buzzer alarm + error code display.

High-temperature-resistant safety cover: The heater has a high-quality and high-temperature-resistant ABS plastic cover, which ensures the safety of fish and other aquatic organisms.

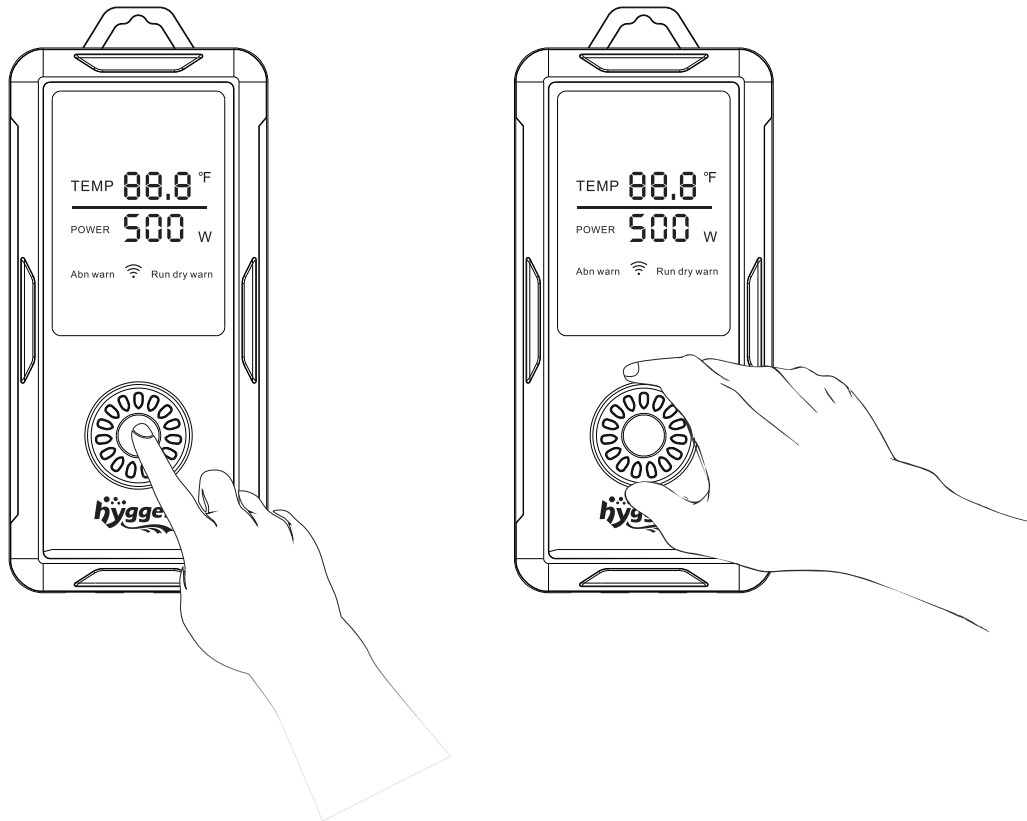
2. PRODUCT PARAMETERS

Model	HG159		
Voltage	US Standard: AC110-120V/60Hz EU/UK/AU Standard: AC220-240V/50Hz		
Power	500W	800W	1000W
Applicable tank size	60-135GAL (220-510L)	80-220GAL (300-830L)	110-240GAL (410-910L)
Heating rod dimension	10.3*2.9*1.4inches 266*74*34MM	12.6*2.9*1.4inches 320*74*34MM	
Temp tolerance accuracy	±1°F / ±0.5°C		
Display accuracy	0.1°F / 0.1°C		
Temp accuracy	±1°F / ±1°C		
Control range	59-93°F / 15-34°C		
Temp controller dimension	6.1*3.1*1.2inches 155*78*30MM		
Cord length	5ft+5ft (1.5m+1.5m)		

3. INSTRUCTIONS

a. Long press the rotary knob for 5 seconds, and the temperature will flash, then release the button to set the temperature.

b. Simply press the knob to increase the temperature by 1°F (1°C) cycle; Turn knob left/right to increase/decrease the temperature by 0.1°F (0.1°C).



c. Once you have selected the desired temperature, the setting is automatically saved if you do not operate the appliance for three seconds. And the temperature setting is complete.

4. TROUBLESHOOTING

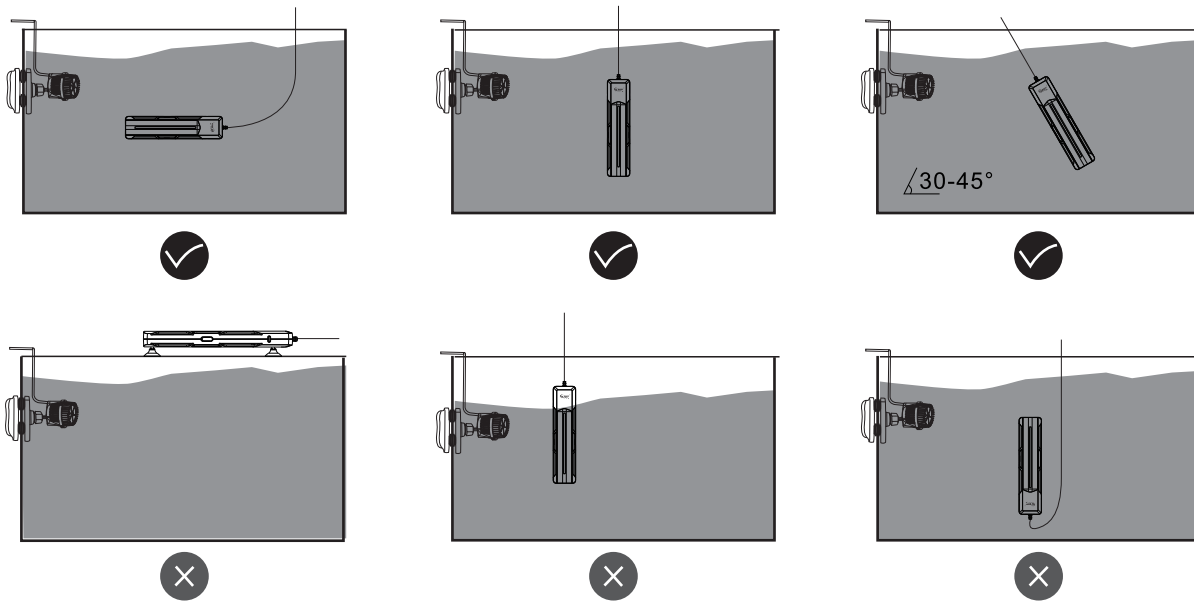
E1	The heating rod is not fully submerged in the water	Fully submerge the heating rod in the water
E2	Alarm for excess temperature	Check whether the excess temperature is caused by the heating rod
E3 L1 L2 H1 H2	Temperature probe fault	Heating rod malfunctions and should be returned to the seller
E4	Communication fault	Heating rod malfunctions and should be returned to the seller
E5/E6	Alarm for dry running	Heating rod is running out of water
IPS	Automatic alarm in the event of a switch fault	Heating rod malfunctions and should be returned to seller

5. PACKING LIST

- 1x Quartz tube heater with LED digital controller
- 2x Suction cup
- 1x Double-sided tape
- 1x Anti-bite housing
- 1x User manual

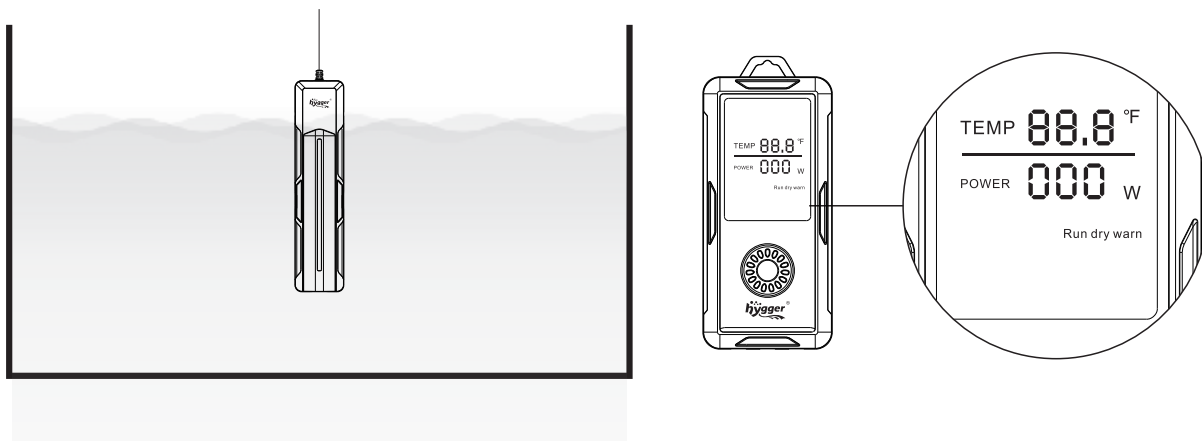
6. APPLICATION

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



B. Digital display models

Automatic warning if the heater runs dry: If at least 2.4 inches of the heating rod is not covered by water, the digital display shows the error code "Run dry warn" and a warning signal is emitted.



7. 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 should not 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 touch 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 or saltwater 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.

8. DISPOSAL

Do not dispose of this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product has to be disposed of at an authorized place for the recycling of electrical and electronic appliances rather than being disposed of together with the domestic waste. Collecting and recycling waste is a way of saving natural resources. So, please consult with your local seller to make sure the product is disposed of in an environmentally friendly way.



9. HYGGER LIMITED MANUFACTURER'S WARRANTY

We offer the end user of this product a manufacturer warranty of 3 (2) years from the date of sale if this product was purchased from a hygger[®]-authorized specialist dealer.

Retain receipt for any future warranty claim. Conditions apply. Products are guaranteed by hygger[®] Aquatic Supplies to the original purchaser against defective material and workmanship under normal use for a period up to 3 (2) years from the date of the original purchase through an Authorized Dealer. Refer to the User Manual included with your product for specific warranty details.

Products have no warranty if:

- 1.) The product has been serviced, modified or tampered with by anyone other than hygger[®] Aquatic Supplies.
- 2.) The product has been abused or damaged (including broken or cracked bulbs), and/ or.
- 3.) The product has been transported without proper packaging.
- 4.) The product was purchased from an Unauthorized Reseller.

WARRANTY LIABILITY DISCLAIMER

In no event will hygger[®] be liable for any consequential or incidental damages, including but not limited to, lost aquatic life, personal injury, property damage, equipment damage, lost profits, lost wages, lost savings, lost income, etc., arising out of the use of any hygger[®] products.

1.0. Terms and Conditions of Warranty.

- 1.1. hygger[®] warrants to the purchaser, for 3 (2) years from date of original purchase through an Authorized hygger[®] Reseller, free to repair or replace parts where fault is found due to defective materials or faulty workmanship and where goods do not operate in accordance with the instructions.

- 1.2. All claims for repair or replacement must be made at place of purchase.
- 1.3. Only the direct purchaser is entitled to warranty claims against us and these are not transferable without our consent.
- 1.4. The original and dated Proof of Purchase (receipt) must be supplied with all goods claims. Please also provide this Guarantee where possible.
- 1.5. Wear parts (e.g.: seals, suction devices, axes, pump wheels, light sources, pH electrodes, filter media, such as filter cartridges, as well as UVC burners), glass damage and the opening of the product, as well as structural changes or the use of non-hygger® original parts are excluded from the guarantee.
- 1.6. All goods subject to claim under Guarantee should be prepared for transportation in the original packaging or other comparable packaging which offers the same degree of protection and hygger® must incur no costs from the shipment.
- 1.7. Where claims on inspection reveal goods are in normal working order, hygger® will request reimbursement of all reasonable costs incurred.
- 1.8. Warranty claims do not exist in the case of only insignificant deviations from the agreed or customary condition or usability, e.g. insignificant deviations in colour, dimensions and/or quality or performance characteristics of the products.
- 1.9. Our warranty obligation extends only to the delivery of newly manufactured products. Unless otherwise agreed, used products are sold as seen, excluding any warranty.

For more warranty information, please see the hygger website.

10. CONTACT INFORMATION

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