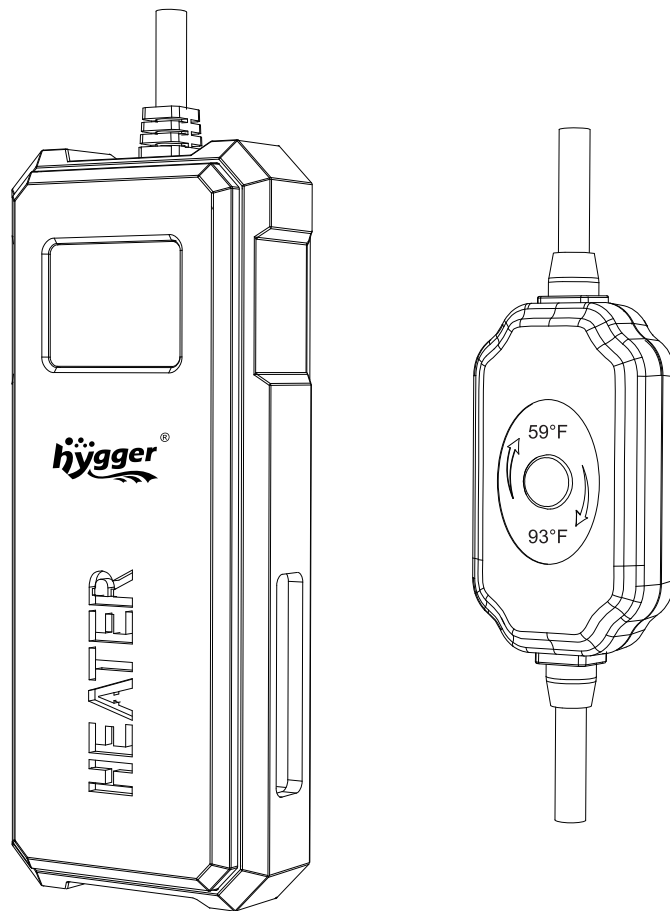




HG308 USER MANUAL

hygger Titanium DuoSense Aquarium Heater



The hygger Titanium DuoSense Aquarium Heater is a flat-lay heater suitable for low water levels, turtle tanks, or small aquariums. Equipped with PID variable-frequency heating technology and a titanium heating element for rapid heating, offering energy efficiency and worry-free operation.

 **NOTE**

Electronic components may malfunction during use. It is recommended to deploy two heaters simultaneously for backup. Before maintenance, ensure the heater is powered off and cooled for at least 5 minutes to avoid hazards.

1. ATTENTIONS

1. The heater must be fully submerged in water during operation. Failure to do so may cause thermostat failure and result in unexpected accidents.
2. Do not modify or alter the heater's structure in any way, as such changes may pose risks to both the product and the user.
3. Always unplug the power cord from the electrical outlet before cleaning or performing maintenance.
4. This heater is designed exclusively for aquatic environments (e.g., aquariums, ponds). Do not use it in corrosive media or other unauthorized applications, as this may damage the product.
5. Always unplug the heater before relocating or adjusting it to prevent damage or hazards.
6. Ensure the power socket and plug remain dry. Install a drip loop in the power cord to prevent water from traveling into the socket.
7. Verify that the heater's electrical specifications (found on the packaging, product label, or manual) match the power supply.
8. This heater cannot lower water temperatures. If ambient temperatures exceed the preset level, water cooling is not supported.
9. A damaged power cord must not be used. Do not attempt to repair, reuse, or replace the cord, as this poses serious safety risks.
10. Electronic components may malfunction during use. For backup protection, we recommend using two heaters simultaneously.
Note: Clients assume full responsibility for fish loss due to low temperatures.
11. Before water changes or removing the heater from the tank: Power off the device and allow a 10-minute cooling period. Immediate removal from water while hot will damage the heater and void the warranty.

2. PRODUCT FEATURES

Dual Temperature Control Systems: Prevents overheating to safeguard aquatic life.

External Temperature Adjustment Key: Externally mounted temperature control with adjustable power settings.

Leakage-Proof Design - Prevents electric shocks.

Corrosion-Resistant Construction: Precision waterproofing with durable, corrosion-resistant materials.

3. PRODUCT SPECIFICATIONS

Model	Voltage/ Frequency	Temperature range	Maximum Power	Minimum Power
HG308	US standard: AC 110-120V/60Hz	59-93°F (15-34°C)	200W	50W

4. INSTALLATION PROCEDURES

Power on the Heater

When powered on, all indicator lights and digital tubes illuminate for 2 seconds, followed by three confirmation flashes, before entering normal operation mode.

Temperature Adjustment

Briefly tap the Plus Key (+): Increases target temperature by 0.5°C(1°F) per click.
Long tap the Plus Key (+): Rapidly increases temperature within the range of 15–34°C(59-93°F).

Confirmation & Exit

After adjustment, the display flashes three times and exits automatically.
Heating pauses during configuration.

Working Status

1. Normal Operation: The “888” display shows the current water temperature.
2. Variable-Frequency Heating: Activates when water temperature drops 0.2-0.4°C(°F) below the set value.
3. If the temperature falls by 0.5 °C(°F) below the set value, the heater restores heating at full power.
4. The middle horizontal line lights up during active heating and goes out in heat maintenance mode.

Power Display

The power display shows real-time heating power level (200W).

Temperature Display

Display temperature updates every 2 seconds, adjusting by ±0.1°C(°F). Heating stops automatically when the preset temperature is reached, with the display showing the real-time water temperature.

Heating Power Adjustment

Enter Power Mode

Long-tap the "Set Temperature" key for 3 seconds.

The display flashes "1888" and shows the current power level (200W).

Cycle Options

Briefly tap the key to toggle between: 200W → 50W → 100W → 150W (repeats).

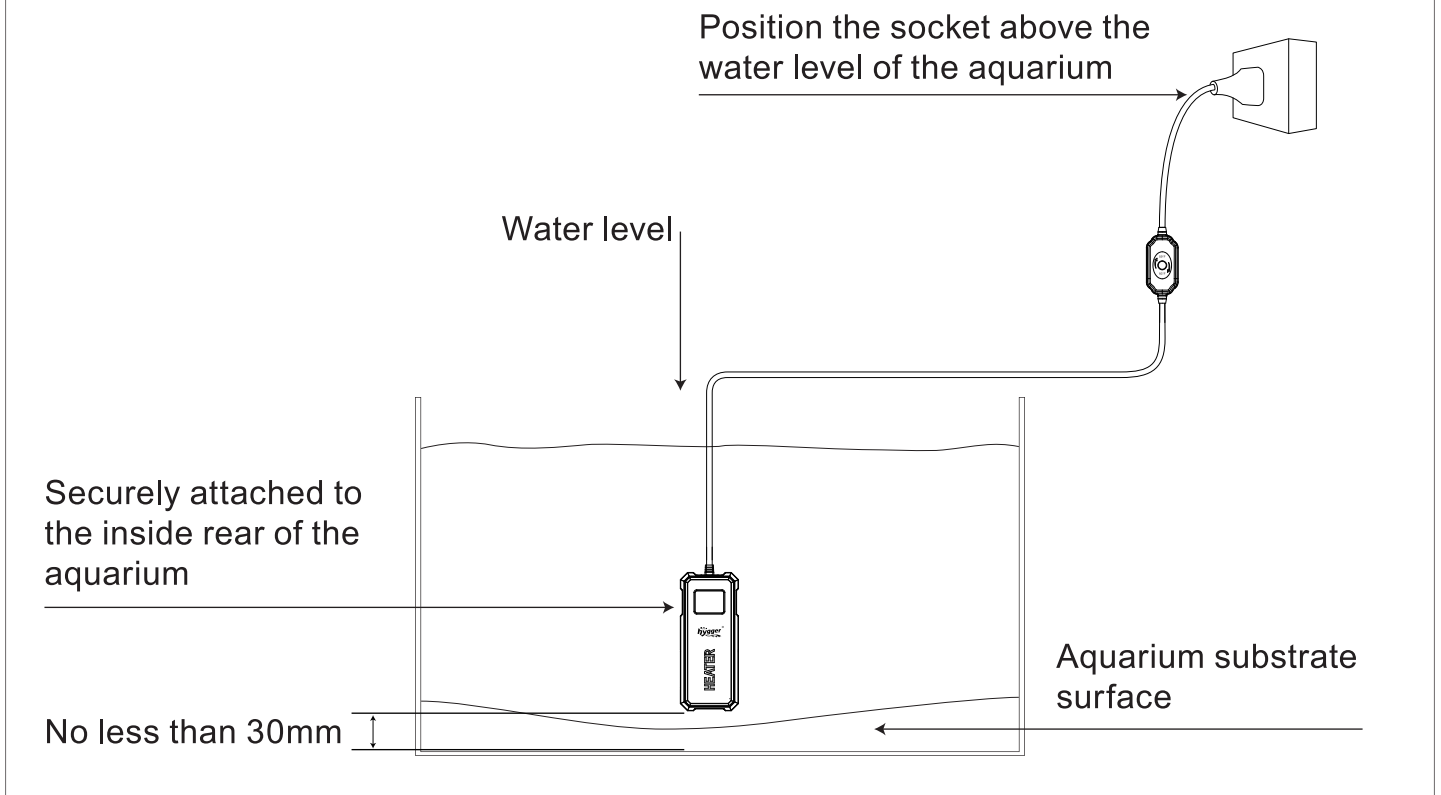
Save & Exit

Release the key for 3 seconds to save the selected power and exit the menu.

Default Setting

Factory preset: 200W.

Heater Installation Diagram



5. FAULT DESCRIPTIONS

Water Detection Error

Condition: Water-separation probe detects no water.

Display: "EE" (first two digits).

Action: Heating stops.

Indicator: "Shut off" icon flashes.

Recovery: Automatically resumes normal operation upon water detection.

High Temperature Alarm

Condition: Water temperature exceeds 36°C (97°F) (detected by temperature probe).

Display: "36°C (97°F)" (all digits).

Action: Heating stops. Indicator: "Abn" icon flashes.

Recovery: Alarm clears automatically, normal operation resumes when the temperature drops below 36°C (97°F).

Temperature Probe Error

Condition: Temperature probe open-circuit, short-circuit, or inter-probe temperature difference >3°C (5°F).

Display: "E1" (first two digits).

Action: Heating stops.

Indicator: "Abn" icon flashes.

Recovery: Automatically resumes normal operation after fault resolution.

Heater Over-temperature Error

Condition: Triggered when two dry-burn protection thermostats detect the heating element surface temperature is above 75 °C (167 °F).

Display: "E2" (first two digits).

Indicator: "Abn" icon flashes.

Recovery: Automatically resumes normal operation after the fault is cleared.

Relay Error

Condition: Relay fails to close/disconnect.

Display: "E3" (first two digits).

Action: Heating stops.

Indicator: "Abn" icon flashes.

Recovery: Requires power cycling after fault resolution to restore operation.

6. TROUBLESHOOTING

Problem	Cause	Solution
No display	Poor power connection	Reconnect power properly
Flickering display	A specific function malfunctions	Troubleshoot according to functions
Fails to heat up	Incorrect temperature setting or oversized tank	Reset temperature; select appropriate tank
Temperature exceeds set value	Small tank paired with high-power heater	Select appropriate tank
No heating	Heating element damaged	Contact the seller

7. MAINTENANCE

To maximize product performance and longevity:

- 1. Monitor Display:** Regularly check the temperature display for alarms or abnormalities.
- 2. Suction Cup Maintenance:** Clean the suction cup with warm water (~60°C/140°F) every 3 months; soak to preserve adhesion.
- 3. Heater Cleaning:** For debris/moss: Unplug the heater and wait 10 minutes. Wipe gently with clean water. Clean heat dissipation holes with a soft brush. Do not use liquids other than clean water. Avoid scrubbing or prying heat dissipation holes/heating elements with sharp objects.

7. PRECAUTIONS

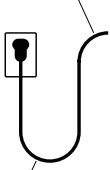
1. This heater uses a metal heating element with intense heating and prolonged residual heat. Do not remove from water immediately after powering off. Cool by soaking in water for 10 minutes; failure to comply voids warranty.
2. Prohibited for use in sump tanks (prone to water loss, causing dry running). Damage from such use voids the warranty.

8. WARNING

To avoid possible electric shock, do not immerse the switch in the water. If the switch falls into the water or becomes wet, do not touch it until you have unplugged it. Basic safety precautions that should be observed are as follows:

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. Instead, return the heater to an authorized service facility for maintenance or discard it.
 - A. If the heater shows any sign of abnormal working or, unplug the power and remove the heater from the water after 15 minutes.
 - B. Carefully examine the heater after installation. It should not be plugged in if there is water on parts that are not intended to be wet.
 - C. Do not operate the heater if it has a damaged cord or plug, is malfunctioning, 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 the aquarium and its stand 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, which connects the heater to the outlet. If an extension cord is used, the “drip loop” is the part of the cord below the level of the outlet or the connector that prevents water from 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. If you are not sure, consult a certified electrician.

POWER CORD



DRIP LOOP

3. Close supervision is necessary when the heater is used near children.
4. This heater is not allowed to use 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 the use of the heater by a person responsible for their safety.
5. To avoid injury, do not contact moving or hot parts.
6. Always unplug the heater from the outlet when not in use, before putting on or taking off parts, maintenance, or placing hands in the water. Never yank the cord to pull the plug from the outlet. Grasp the plug and pull 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 extreme weather or temperatures below freezing.
9. Only use the heater in freshwater or saltwater, do not use it 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, such as rated amperes or watts. A cord rated for fewer 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 2-conductor power cord has a polarized plug (one blade is wider than the other.) As a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use it with an extension cord unless the plug can be fully inserted. Do not attempt to defeat this safety feature.
14. The heater is intended FOR HOUSEHOLD USE ONLY.
15. SAVE THIS USER MANUAL.

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®-authorised 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. 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.



11. CONTACT INFORMATION

E-mail: service@hygger-online.com

Website: www.hygger-online.com