

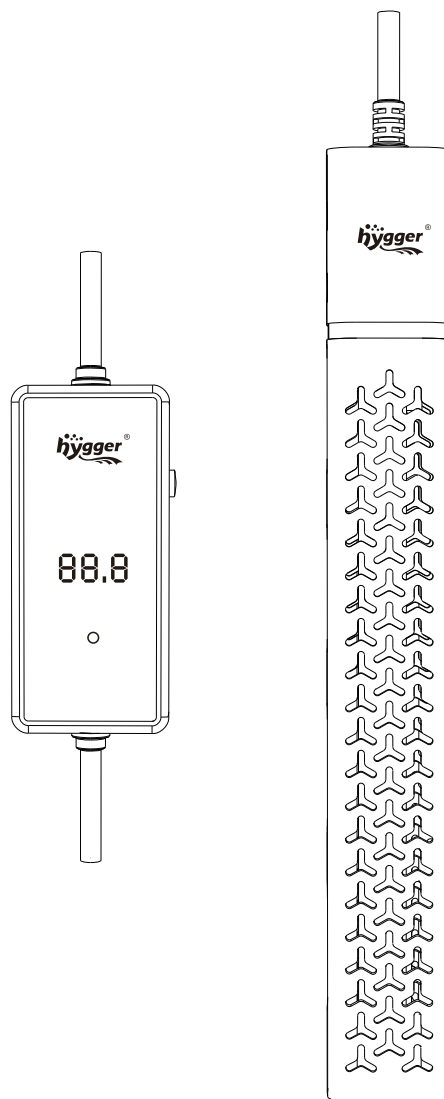


E-mail: distributor@hyggeraquarium.com

Website: www.hyggeraquarium.com



HG145 hygger Accurate Quartz Glass Aquarium Heater User Manual



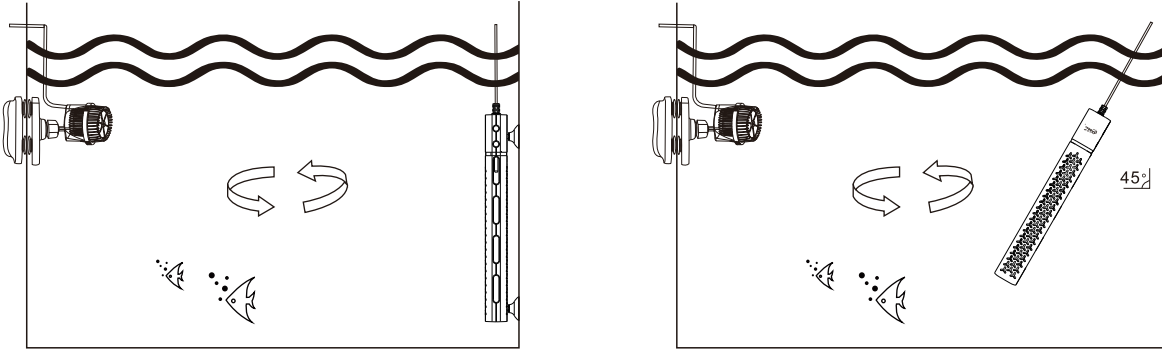
hygger Accurate Quartz Glass Aquarium Heater is the perfect heater for your freshwater or saltwater aquariums.

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



Attentions:

- 1) The heater must be fully submerged 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 flow is faster or at the water inlet and tilted about 45 degrees for more accurate temperature measurements.
- 3) Please do not bury the heating rod or use it near the sand.



- 4) The controller is not waterproof, please keep it away from water.
- 5) This product can be used in salt water, but it may fail when used in salt water without power (dry burning protection function is still effective protection)

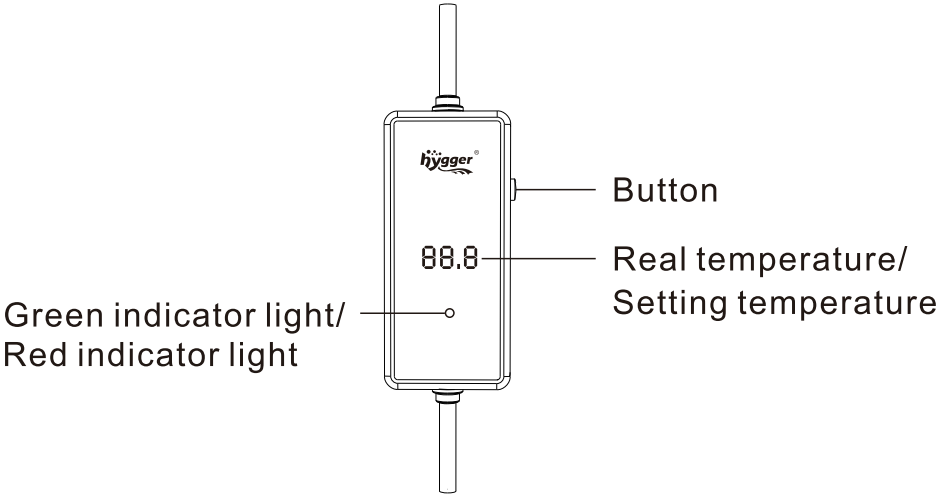
1. PRODUCT FEATURES

- a.Active protection system: When the heater malfunctions and the temperature rises, the system will trigger a high temperature alarm after 10 seconds. At the same time, the heater stops heating automatically.
- b.Reliable and durable: The heating rod is made of explosion-proof quartz glass and a highly temperature-resistant nickel-chromium heating wire with a heat conductor made of silicon carbide. More safe, scientific, durable and longer service life.
- c.Malfunction protection: Alarm with a buzzing sound and flashing icon. If the heater is not working properly, an alarm with a buzzing sound is automatically triggered. If the heater runs out of water, the heater is automatically disconnected from the power supply, and a warning signal is displayed to prevent accidents.
- d.Precise temperature control: The indicator light shows red, and the heating rod starts to heat when the current water temperature falls 1°F below the preset temperature. The indicator light is off and the heater stops heating when the preset water temperature has been reached. 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 will emit a buzzing sound as a warning and stop heating automatically.
- e.Children protection function: To prevent wrong operation by children, the button must be pressed for 3 seconds for the controller to function.

2. PRODUCT PARAMETERS

Model No	HG145		
Volt/Freq	US Standard: AC 110-120V/60Hz EU/UK/AU Standard: AC 220-240V/50Hz		
Power	200W	300W	500W
Application	10-55gal(37-208L)	25-80gal(94-300L)	60-135gal(220-510L)
Cord length	5ft+5ft/1.5m+1.5m		
Control range	59-93°F (15-34°C)		
Temp accuracy	0.5°F (0.5°C)		
Temp tolerance accuracy	±2°F (±1°C)		
Display accuracy	0.1°F (0.1°C)		
Temp controller dimension	6.4*2.1*1inches/161*53*25mm		
Heating rod dimension	10*1.58*1.3inches/ 250*40*32MM	10*1.58*1.3inches/ 250*40*32MM	12*1.58*1.3inches/ 305*40*32MM

3. INSTRUCTIONS



- a.Long press the key for 3 seconds, the display temperature flashes, release the key to enter the temperature setting.
- b.Press the key briefly, the temperature will cycle with 0.5°F to set the temperature (59-93°F) (15-34°C).
- c.Once you have selected the desired temperature, the setting is saved if you do not operate the appliance for three seconds. And the temperature setting is completed.

d.Press and hold the key for 6 seconds to switch modes: The flashing red light indicates that the precision mode is activated, and the heater starts heating when the temperature is below the set temperature of 1°F. The green light flashes 6 times, indicates that the energy-saving mode is activated, and the heater starts heating when the temperature is below the set temperature of 2°F, This mode is more power efficient.

e.Children protection function: To prevent wrong operation by children, the button must be pressed for 3 seconds for the controller to function.

4. TROUBLESHOOTING

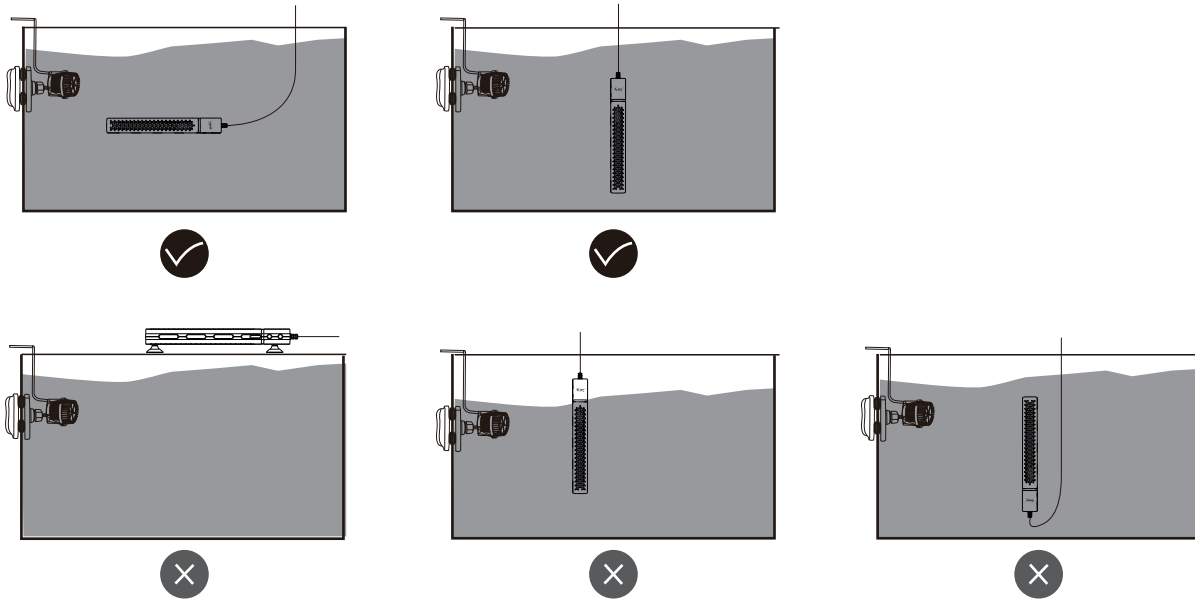
Fault Code	Explanation	Solutions
E1	The heating rod is exposed to air	Check that the heater is completely immersed in the water, and clean area around the probe
E2	Over-temperature alarm	Check the water temperature and place the heater in well-circulated water
E3	Probe malfunction	Factory repair
E4	Malfunction of communications	Factory repair
E5/E6	Dry firing	Check to see if the heating rod is exposed to the water. If exposed to the water, it needs to be put back into the water to cool down for more than five minutes and restarted after powering off to recover.
IPS	Active protection failure	Factory repair
	The heating rod does not alarm when it leaves the water	The alarm will not be raised until the heating rod is about 3CM above the water surface

5. PACKAGE INCLUDES

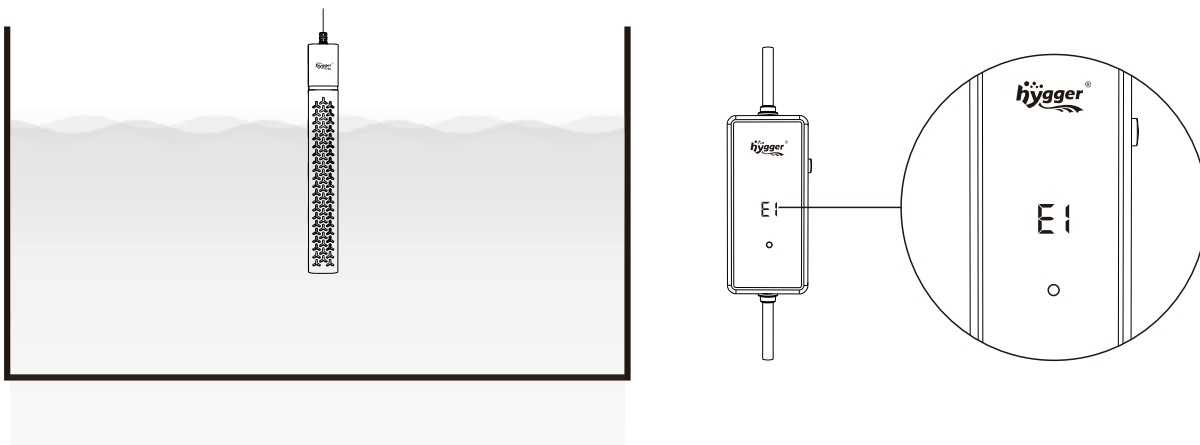
- 1x Quartz glass heater with a controller
- 2x Suction cup
- 1x User manual

6. APPLICATION

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



B. Out-of-water alert: When the heating rod is out of the water (at least 2.4 inches), it will display the fault code of “E1”, and the buzzer alarm will sound.



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.

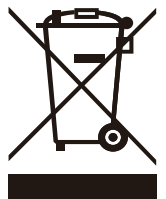
14. SAVE THIS USER MANUAL.

8. ATTENTION

- ✓ Please check all the items to inspect condition when unboxing the package.
- ✓ Please read and follow all the instructions carefully.
- ✓ Please choose a 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 fully submersed in water 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 and 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.

7. 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.



10. ONE YEAR LIMITED WARRANTY

This product MUST be purchased from an authorized hygger reseller. Visit our website for a list of authorized resellers. hygger warrants this product against defects in materials and workmanship for ONE(1) YEAR from the date of the original retail purchase and is none-transferable.

Warranty on all products, including aquariums. But it is limited to the replacement of the products and does not cover fish loss, personal injury, property loss or direct, incidental or consequential damage caused by using this product.

Note: hygger One-year Limited Warranty does not cover damage caused by the followings: improper installation, saltwater corrosion, electrical surges or modifications. Additionally, products that have been refunded are also not covered under the warranty.

If you discover a defect, please contact hygger, who will, at it's option, repair or replace the product at no charge, provided that you return it during the warranty period. A copy of the bill of sale is required as a proof of the original purchase date in the event of the product needing repairs within the warranty period. hygger does not warrant any products that aren't hygger's.

This warranty does not apply if the product has been damaged by accident, abuse, misuse or misapplication, or modified without the written permission of hygger.

10. CONTACT INFORMATION

Distributed by: Hygger Aquarium, Inc.
13941 Magnolia Ave, Chino, CA 91710

E-mail: distributor@hyggeraquarium.com

Website: www.hyggeraquarium.com

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