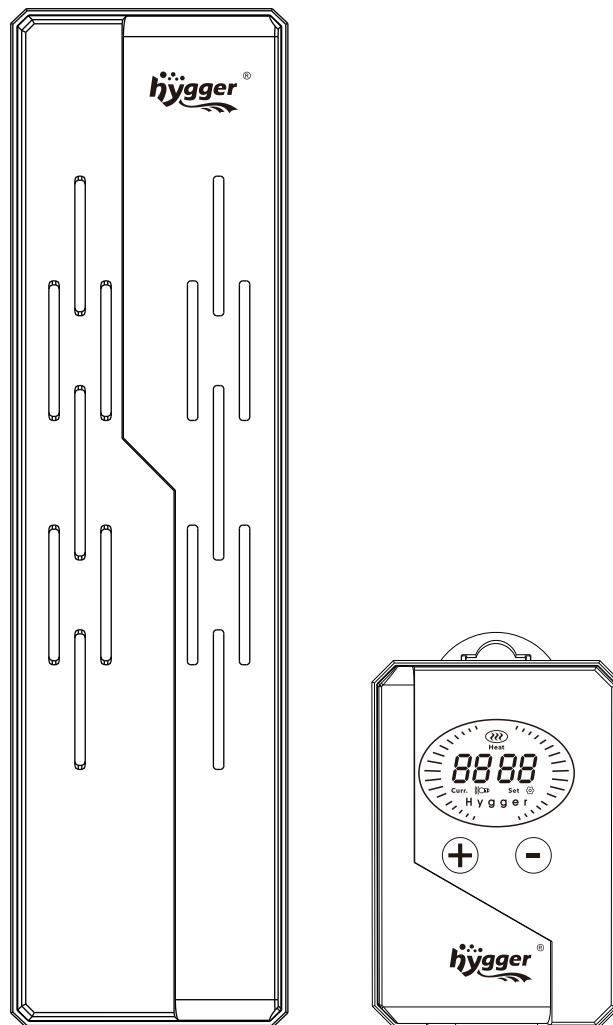




HG 102 USER MANUAL

hygger quartz tube aquarium heater

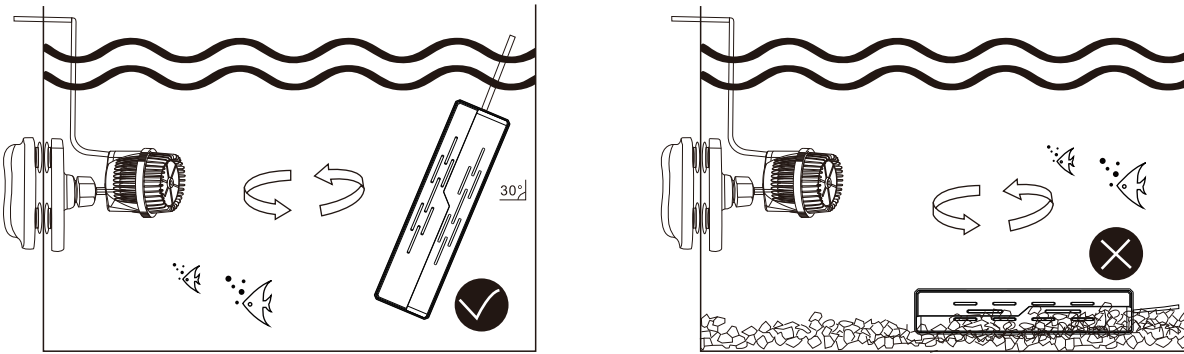


hygger's heater is the perfect aquarium heater for your freshwater and saltwater aquariums.



ATTENTIONS:

- 1) Fully submerge the heater when it's on, unplug the heater and wait for 15 minutes before changing water or removing the heater.
- 2) Our heating rods should be placed where the water flow is faster or at the inlet and tilted as much as possible by about 30 degrees so that the temperature measurement will be more accurate.
- 3) Please do not bury the heating rod or use it near sand.



1. PRODUCT FEATURES

- **Fully submersible:** The heater must be fully submerged to work properly.
- **Rapid thermal accumulation:** The heating rod is made of explosion-proof quartz and a high-temperature-resistant nickel-chromium heating wire with silicon carbide thermal conductivity; this makes the water heat up faster and safer. More durable and longer service life. The double heating rod makes it a more powerful heater.
- **LED digital temperature display:** The LED digital display screen shows default setting for the current water temperature in Fahrenheit (or Celsius) and you can preset temperature. The external touch controller makes it easy to set and operate. Each touch changes the set temperature by 1°F/ 1 °C. The beautiful marquee indicator shows the heating status.
- **Precise temperature control:** When the current water temperature is 1°F/1°C below the set temperature, the indicator light turns red and starts heating. When the water temperature reaches the set temperature, the indicator light turns steady blue. The heating rod temperatures range from 59°F(15°C) to a maximum of 93°F (34°C) to prevent livestock injury.
- **Easy operation:** Plug it into an outlet and it works right out of the box. The clear LED display is easy to read and set! Press the plus and minus keys simultaneously for 3 seconds to switch between Celsius and Fahrenheit.

- **Auto power-off and warning signal:** When the heating rod is exposed to air, the heater will shut off automatically and send a warning signal. When the heating rod is fully immersed in water, it will start working again.
- **Accurate, reliable, and durable:** The quartz tube is made of premium material and are scientifically designed for precision. Our heater provides years of reliable use.
- **Memory function:** If power is disconnected, the heater will maintain the temperature settings until the power is turned on again.
- **High-temperature resistant safety cover:** High quality and high-temperature resistant PC plastic cover prevents fish from being harmed.

2.PRODUCT PARAMETERS

Model No	HG102		
Voltage	US Standard:AC 110-120V /60Hz EU/UK/AU Standard:AC 220-240V /50Hz		
Power/ Application	100W	200W	300W
	5-40gal(19-150L)	10-55gal(37-208L)	25-80gal(94-300L)
	500W		800W
	60-135gal(220-510L)		80-220gal(300-830L)
	1000W		1200W
	110-240gal(410-910L)		130-280gal(490-1050L)
Cord length	6.0ft+4ft / 1.8m+1.2m		
Control range	59-93°F / 15-34°C		
Temp accuracy	1°F / 1°C		
Temp tolerance accuracy	±1°F / ±1°C		
Temp controller dimension	4.7×3.26×1.2inch / 12×8.3×3cm		
Heating rod dimension	11.2×2.3×1.5inch / 28×5.8×3.8cm	11.4×3.2×1.25inch / 29×8.1×3.2cm	

3. PACKAGE INCLUDES

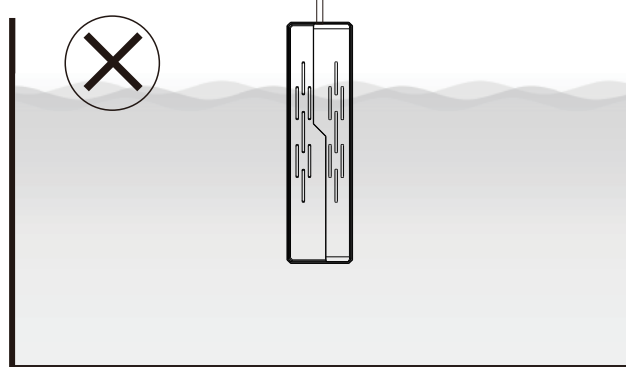
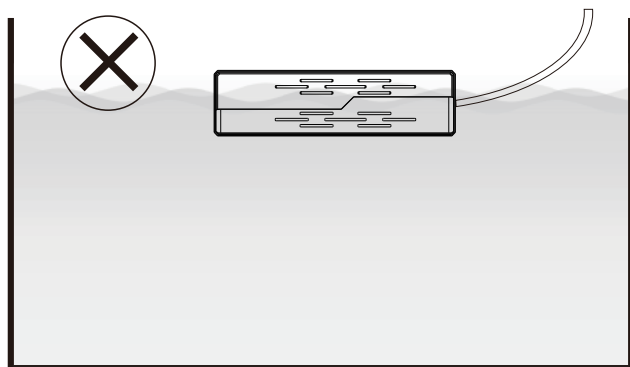
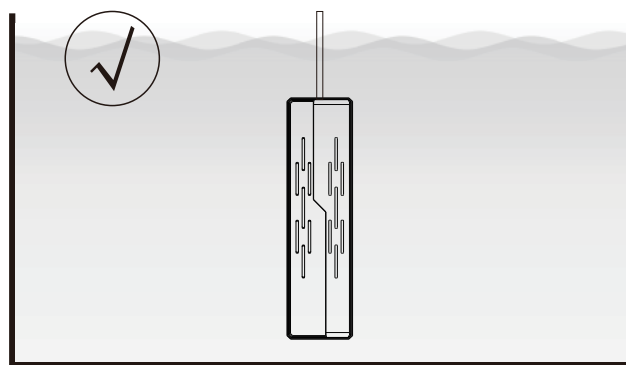
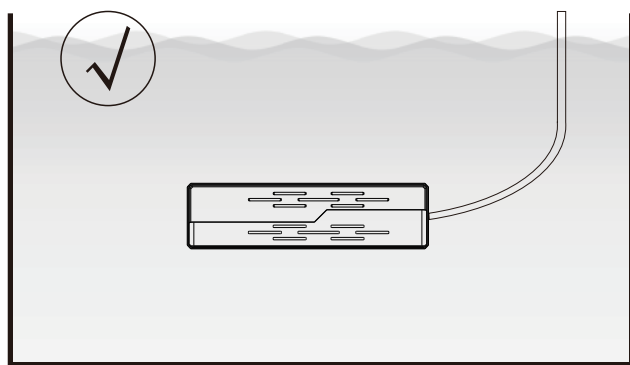
1× Quartz tube heater with LED digital controller

1× 3pcs suction cups

1× User manual

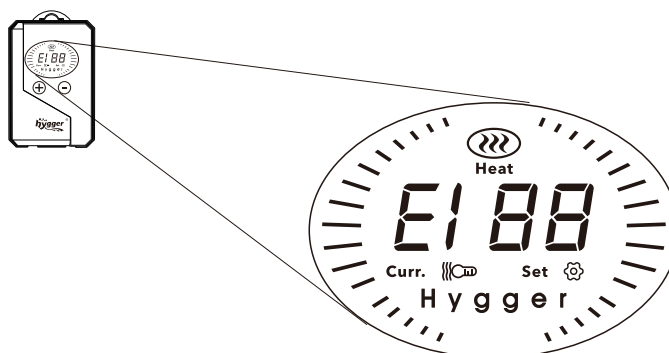
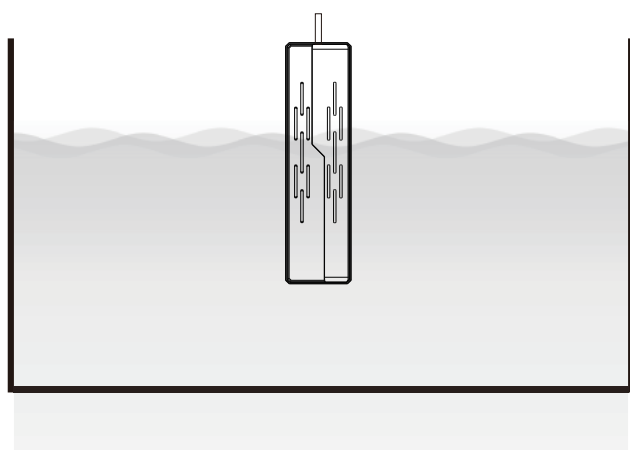
4. APPLICATION

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



B. Digital display models

1. Out of water alert: when the heating rod is out of water (at least 2.4 inches), it will display the fault code of "E1" and a warning signal will sound.



5. WARNING

To guard against injury, basic safety precautions should be observed including the following:

1. Read and follow this user manual strictly.

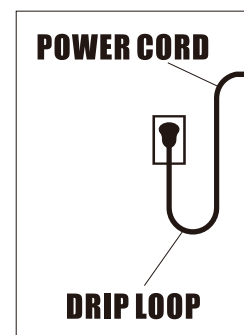
2. **DANGER**-To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt to repair yourself; return the heater to an authorized service facility for service or discard the heater.

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.

6. 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 submerged 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 this product as unsorted municipal waste. This product must not be disposed together with the domestic waste it must be disposed of 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.



8. CONTACT INFORMATION

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