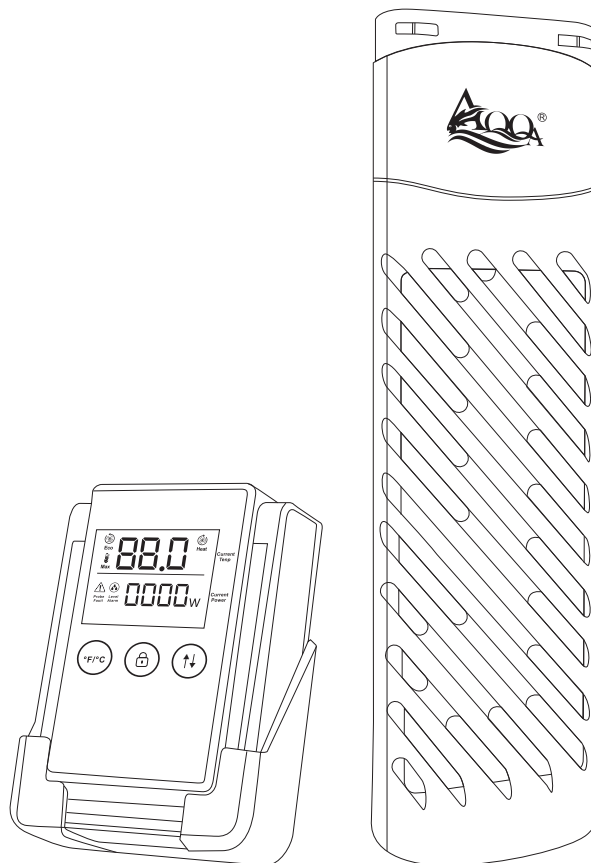




AQ073 USER MANUAL

AQQA PTC Aquarium Heater



This fish tank heater is equipped with dual probes and an intelligent heating constant temperature system. The AQQA PTC aquarium heater is a high-quality heating device designed for freshwater aquariums. It offers fast and efficient heating, ensuring the aquarium maintains the optimal temperature. In addition, the heater features a dual display that allows the user to control the temperature accurately. It is durable and provides reliable performance for aquarium enthusiasts.



Reminder:

- 1.The controller is not waterproof. Please ensure that it remains dry at all times.
- 2.The heater must be completely submerged in water to ensure proper operation.

1.PRODUCT FEATURES

Rapid and Safe Heating: This heater is made of PTC new ceramic semiconductor material and graphene coating, the powerful heating wire can heat the water quickly and safely.

Precise Temperature Control: When the current water temperature is below the set temperature of 1°F/ 1°C, the indicator light turns red and starts heating. It turns green when the set temperature has been reached. The temperature range of the heating rod is 59-94°F (15-34°C).

Accurate Dual Digital Display Controller: The high-definition dual digital display on the controller shows the set temperature and real-time power with an accuracy of 1 °F/1 °C.

Switch between Fahrenheit and Celsius: Press and hold the lock button for 1-3 seconds, wait for the current temperature to flash, and then press the °F/°C button to switch between Celsius and Fahrenheit temperature units.

Easy Operation: Simply plug the heater into an outlet to put it into operation. The external touch control allows for easy temperature adjustment. Each touch changes the set temperature by 0.5°F/0.5°C.

Auto Power-Off and Error Code Alert: If the heating rod is exposed to air, the heater automatically switches off and displays the error code Er. When it is fully submerged in water, the heater will resume operation. The high and low-temperature protection triggers the error code EE when the temperature is above 95 °F (35 °C). The heater will automatically start heating if the water temperature is below the set temperature and ensures that the water temperature is maintained by circulation.

Memory Function: In the event of a power outage, the heater retains its previous temperature setting and will resume operation once power is restored.

High-Temperature Resistant Safety Cover: The detachable ABS plastic cover is designed to withstand high temperatures and it is easy to clean, ensuring the safety of fish and other aquatic organisms.

Safer to Use: The heater automatically switches to childproof mode after it has not been in operation for 3 seconds. This prevents children from accidentally touching the appliance and protects the safety of the baby and the fish.

2.PRODUCT PARAMETERS

Model	AQ073				
Power	100W	200W	300W	500W	800W
Application	8~20gal (30~76L)	20~40gal (76~151L)	30~80gal (115~300L)	53~130gal (200~495L)	80~230gal (300~870L)
Voltage	US Standard:AC 110-120V /60Hz EU/UK/AU Standard:AC 220-240V /50Hz				
Control Range	59°F~94°F/ 15°C~34 °C				
Temp Accuracy	±1°F / ±1°C				
Heating Rod Dimension	5.3*2.4*0.8in 13.5*6.2*2.0cm		7.1*2.4*0.8in 18.0*6.2*2.0cm		9.5*2.4*0.8in 24.2*6.2*2.0cm
Temp Controller Dimension	4.1 x3.1 x1.1in 10.3 x 8.0 x 3.0cm				

3.ERROR CODE COMPARISON TABLE

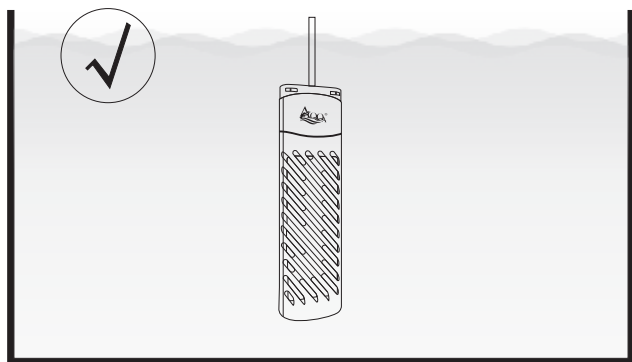
Solutions if error codes are displayed on the LED	Error Code	Explanation	Solutions
	Er	Auto switch-off when out of water	Ensure the heating rod is fully submerged in water
	EE	Water temperature exceeds 95°F (35°C)	Wait for the water temperature to drop below 95°F (35°C)
	H1	Temperature sensor 1 is short-circuited	Unplug it immediately. Do not use and replace
	H2	Temperature sensor 2 is short-circuited	Unplug it immediately. Do not use and replace
	E1	Temperature sensor 1 has an open-circuit fault	Unplug it immediately. Do not use and replace
	E2	Temperature sensor 2 has an open-circuit fault	Unplug it immediately. Do not use and replace

4.PACKAGE INCLUDES

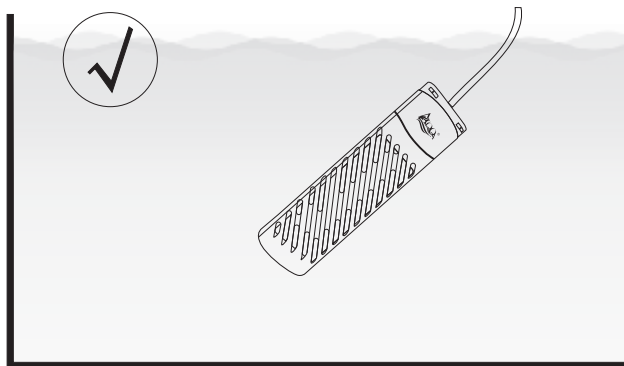
1 x Aquarium heater
5 x Suction cup
1 x User manual

5. APPLICATION

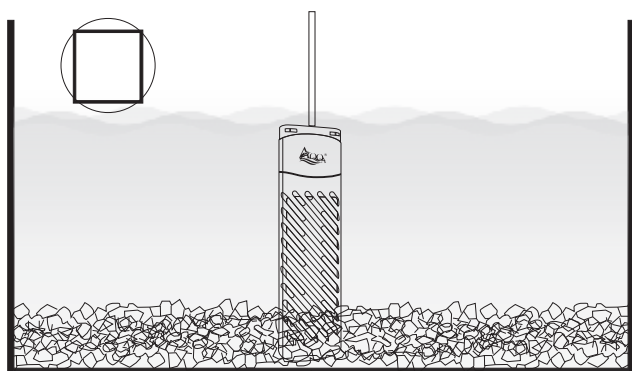
A. Place the heater as shown in the following diagram:



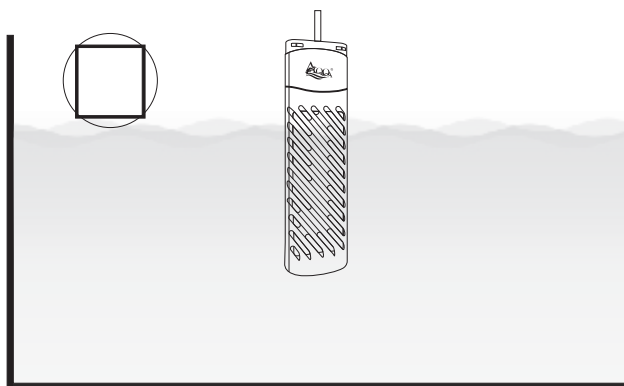
Submerged in water



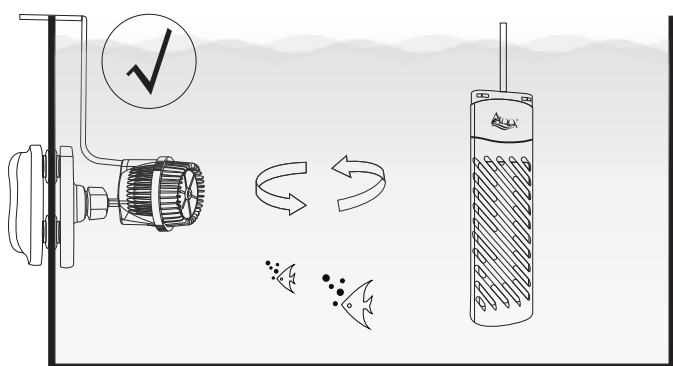
Submerged in water



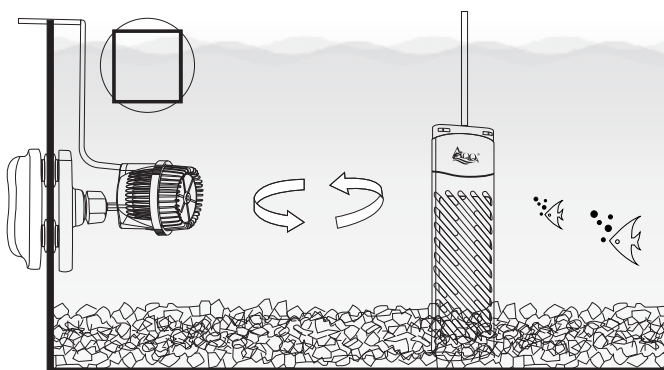
Do not bury under gravel



Do not out of the water



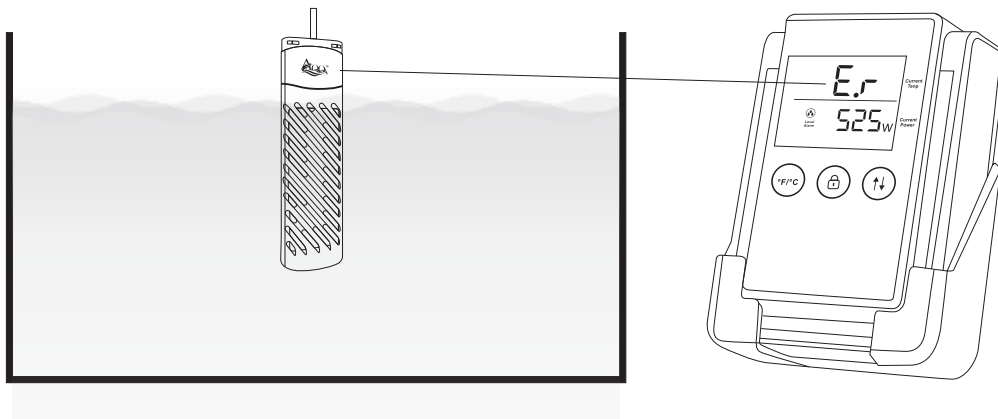
Close to the pumps



Do not bury under gravel

B.Digital display models

Automatic warning if the heater runs dry: If at least 2.4 inches (6cm) of the heating rod is not covered by water, the digital display shows the error code "Er" and the "water level alarm icon" will flash; no sound signal is emitted.



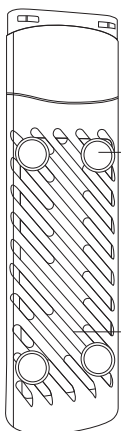
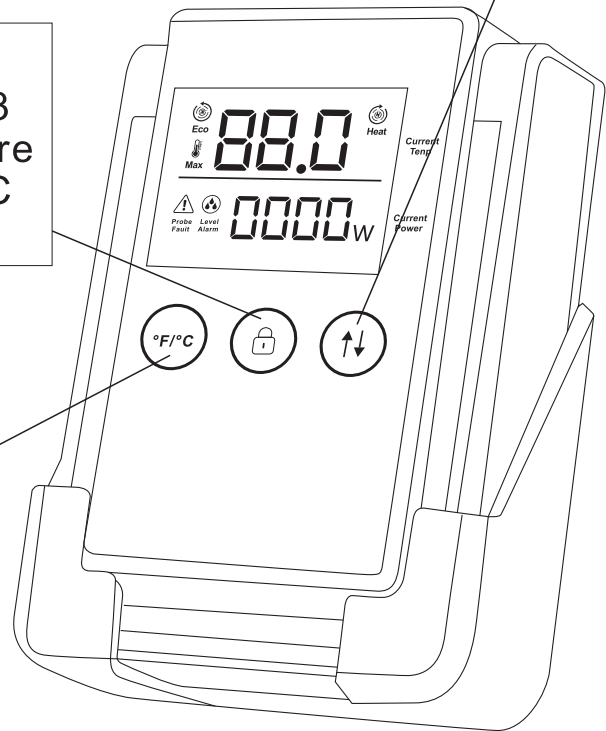
Important Reminder :

- 1)The AQQA heater must be fully submerged in the water when it is in operation.
- 2)Please make sure there is enough water flow and water circulation in your fish tank when using the heater.
- 3)Do not bury it under gravel as it does not conduct heat.
- 4)To ensure even and thorough distribution of warm water and to provide an accurate temperature reading, it is recommended that the heater be placed in an area of the unit that is unobstructed, and has an unobstructed flow of water, such as near a filter or pump outlet.
- 5)When changing the water for the fish tank, you need to unplug the heater and wait 15 minutes before changing the water or removing the heater from the aquarium.
- 6)Please do not pour any chemical agent into the aquarium with the heater.
- 7)To ensure the heat dissipation effect of the heating rod and protect its service life, it is recommended to remove the protective cover of the heating rod every half month and clean the PTC surface with cotton cloth.

This button is used to adjust the temperature + -, press and hold the child-proof button for 1-3 seconds, wait for the current temperature to flash, then press the temperature adjustment button to adjust the set temperature in 1°F/1°C increments

This is the child-proof button. Press and hold the child-proof button for 1-3 seconds. After the current temperature flashes, you can switch between °F/°C and adjust temperature +-

This is Celsius Fahrenheit switch button (indicated by °F/°C), press and hold the button for 1-3 seconds, wait for the current temperature to flash and then press the °F/°C button to switch between °F/°C



Four powerful suction cups are installed on the back of the heating rod, firmly attached to the inner wall of the fish tank

Removable protective cover

6. WARNING

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

1. Read and follow this user manual strictly.

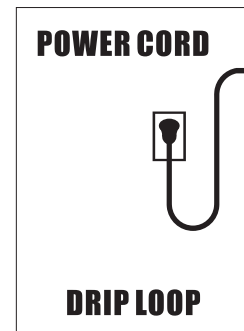
2. **DANGER**-To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt to repair yourself; return the heater to an authorized service facility for service or discard the heater.

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.

7. 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.

8. AQQA LIMITED MANUFACTURER'S WARRANTY

We offer the end user of this product a manufacturer warranty of 2 years from the date of sale if this product was purchased from an AQQA® - authorised specialist dealer.

Retain receipt for any future warranty claim. Conditions apply. Products are guaranteed by AQQA® Aquatic Supplies to the original purchaser against defective material and workmanship under normal use for a period up to 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 AQQA® 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 AQQA® 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 AQQA® products.

1.0. Terms and Conditions of Warranty.

- 1.1. AQQA® warrants to the purchaser, for 2 years from date of original purchase through an Authorized AQQA® 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-AQQA[®] 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 AQQA[®] must incur no costs from the shipment.
- 1.7. Where claims on inspection reveal goods are in normal working order, AQQA[®] 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.

9. 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.



10. CONTACT INFORMATION

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