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› [HiTauing AP01 Aquarium Heater User Manual \(300W\)](#)

## HiTauing AP01 300W

# HiTauing AP01 Aquarium Heater User Manual

Model: 300W

## 1. SAFETY INSTRUCTIONS

Please read all safety instructions carefully before operating the HiTauing AP01 Aquarium Heater. Failure to follow these instructions may result in product damage, injury, or electric shock.

- **Electrical Safety:** Ensure the heater is fully submerged in water before connecting it to a power source. Always unplug the heater from the power outlet before performing any maintenance, cleaning, or when handling the aquarium water. Do not operate the heater if the cord or plug is damaged.
- **Water Level:** The heater must always be completely submerged. Operating the heater out of water can cause overheating and damage to the unit or the aquarium.
- **Placement:** Position the heater vertically in an area with good water circulation to ensure even heat distribution. Avoid placing it directly against glass or decorations.
- **Temperature Range:** The safe operating temperature range for this heater is 63°F to 94°F (17°C to 34°C). Do not attempt to set temperatures outside this range.
- **Child Safety:** Keep this appliance out of reach of children.
- **UL-1018 Certification:** This heater is UL-1018 certified, ensuring explosion-proof performance and stable heating.

## 2. PRODUCT OVERVIEW

The HiTauing AP01 Aquarium Heater is designed for precise temperature control in freshwater and saltwater aquariums.

### Key Features:

- **Dual Temperature Control:** Equipped with a high-precision IC intelligent chip and PID monitoring system for real-time water temperature monitoring and automatic regulation.
- **Fast Heating:** Double tube design with nichrome wire and quartz sand heating material for 20% higher heat conduction efficiency.
- **Overheating & Water Loss Protection:** Automatic shutdown and alarm (E1/HH) if out of water or exceeding maximum temperature.

- **Protective Design:** ABS hard plastic shell with 0.4cm cooling holes to prevent small fish from entering.
- **Waterproof:** IPX8 waterproof rating to prevent power leakage.



Image 2.1: Overview of the HiTauing AP01 Aquarium Heater, including the heating element, external controller, and power plug.

# Smart IC & PID External Controller



Image 2.2: The external controller display, illustrating the red indicator for active heating and the green indicator for constant temperature maintenance.

## 3. SETUP

### Installation Steps:

- Unpack:** Carefully remove all components from the packaging. Inspect for any damage.
- Placement:** Submerge the heater completely in your aquarium. Ensure it is positioned vertically and away from direct substrate contact.
- Secure:** Use the three strong suction cups provided to firmly attach the heater to the inside wall of your aquarium. Ensure it is stable and will not dislodge.
- Connect Controller:** Ensure the heater is securely connected to the external controller.
- Power On:** Plug the controller's power cord into a suitable electrical outlet.

# Product Parameters

AP-01



**Power:** 300W

**Ideal For:** 20-75 Gallons

**Temp Control Range:** 63-94°F (17-34°C)

**Voltage:** AC 110-120V/60Hz

**Temperature Error Range:**  $\pm 2^{\circ}\text{F}/1^{\circ}\text{C}$



Image 3.1: The removable double-tube design of the heater, highlighting its components and the three strong suction cups for easy installation.

## 4. OPERATING INSTRUCTIONS

### Temperature Control:

- Upon powering on, the controller display will show the current water temperature and the set temperature.
- Use the buttons on the controller to adjust the desired temperature. The temperature control range is 63°F to 94°F (17°C to 34°C).
- The controller features a large display with a surrounding light indicator:
  - Green Light:** Indicates the heater is maintaining a constant temperature (not actively heating).
  - Red Light:** Indicates the heater is actively heating the water.
- The intelligent IC chip and PID monitoring system will automatically regulate the heating to maintain the set temperature precisely.

## Dual Quartz Tubes - Faster Heating

Nickel-chromium wire conducts heat quickly and heats up faster



Temperature Control Range

63°F-94°F / 17°C-34°C

Image 4.1: Internal view of the dual quartz tubes, illustrating the nickel-chromium wire heating elements responsible for rapid and efficient heating.

### Overheating and Water Loss Protection:

The heater is equipped with an intelligent temperature water sensing system for enhanced safety:

- If the heater is not fully submerged (e.g., 5cm above the water surface), the controller will display "**E1**" and the heater will automatically stop heating. The surround light will turn green.
- If the water temperature exceeds 94°F (34°C), the controller will display "**HH**" blinking along with an alarm, and the heater will automatically stop heating. The surround light will turn green.
- In both cases, the heater will resume normal operation once the condition is resolved (e.g., fully submerged, temperature drops).

# Over Temperature Protection Function

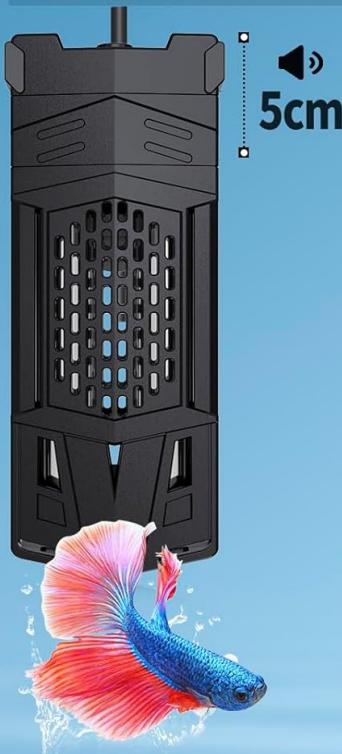
## Automatic Thermostat



When the water temperature exceeds 2 °F more than the set temp, the tank heater will automatically stop heating.



When the water temp is cool down to 2°F less than the set temp, the aquarium heater will restart heating.



When the heater is 5 cm above the water surface, aquarium heater will automatically power off, and the controller will display "E1"

Image 4.2: Visual representation of the heater's automatic thermostat and anti-dry burning function, showing error codes E1 and HH on the controller display.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your aquarium heater.

- Cleaning:** Unplug the heater and allow it to cool completely before removing it from the aquarium. The double-tube design allows for one-touch disassembly, making cleaning easy. Gently clean the heating tubes and the protective shell to remove any algae or mineral buildup. Use a soft brush or cloth.
- Inspection:** Periodically inspect the power cord and heater unit for any signs of wear, cracks, or damage. Do not use if damaged.
- Reassembly:** After cleaning, ensure all parts are properly reassembled and the heater is fully submerged before plugging it back in.

## 6. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Error Code / Symptom	Reason	Solution
<b>HH</b> (Blinking + Alarm)	Water temperature exceeds 94°F (34°C).	Add a pump to allow water flow or select an appropriate heater wattage for your tank size. The heater will automatically stop heating until the temperature drops.
<b>E1</b> (Blinking + Alarm)	Heater is not fully submerged or is away from the water surface.	Check for lack of water. Clean the heating rods if necessary. Ensure the heater is fully submerged. Turn off power, then power on again.
<b>E2</b> (Blinking + Alarm)	Temperature detector failure.	Turn off the power and power on again. If the error persists, contact customer support for replacement.
Heater not heating	Power issue, set temperature reached, or malfunction.	Check power connection. Verify the set temperature is higher than the current water temperature. If issues persist, refer to error codes or contact support.



Image 6.1: Visual guide to troubleshooting common error codes (HH, E1, E2) displayed on the controller.

## 7. SPECIFICATIONS

Parameter	Value
Model	AP01
Power	300W
Ideal for Tank Size	20-75 Gallons
Temperature Control Range	63-94°F (17-34°C)
Voltage	AC 110-120V/60Hz
Temperature Error Range	±2°F/1°C
Item Weight	1.96 pounds

Parameter	Value
Dimensions (Heater)	Approx. 7.28in (H) x 2.95in (W) x 1.57in (D)



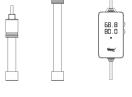
Image 7.1: Detailed product parameters including power, recommended tank size, temperature range, voltage, and dimensions.

## 8. WARRANTY & SUPPORT

HiTauing provides a **12-month warranty** for this product. If you encounter any questions or issues during the use of your AP01 Aquarium Heater, please do not hesitate to contact our customer support team.

Our support team is available 24 hours online to assist you with any inquiries or troubleshooting needs.

For warranty claims or technical assistance, please refer to the contact information provided with your purchase or visit the official HiTauing website.

 <p>USER MANUAL HiTauing Intelligent Aquarium Heater</p> 	<p><a href="#">HiTauing Intelligent Aquarium Heater AP-03 User Manual &amp; Features</a></p> <p>Comprehensive user manual for the HiTauing Intelligent Aquarium Heater (Model AP-03). Learn about its features, specifications, safe operation, installation, and maintenance for freshwater and saltwater aquariums.</p>
	<p><a href="#">Hitauing Aquarium Heater User's Manual</a></p> <p>User manual for the Hitauing Aquarium Heater, detailing instructions, product features, installation, safety precautions, and troubleshooting.</p>
 <p>USER MANUAL HiTauing Intelligent Aquarium Heater</p> 	<p><a href="#">HiTauing Intelligent Aquarium Heater AP-03 User Manual &amp; Features</a></p> <p>Comprehensive user manual for the HiTauing Intelligent Aquarium Heater (Model AP-03). Learn about its features, specifications, safe operation, installation, and maintenance for freshwater and saltwater aquariums.</p>
	<p><a href="#">SICCE SCUBA PRESET Aquarium Heater: Safety, Operation, and Warranty Guide</a></p> <p>Comprehensive guide for the SICCE SCUBA PRESET submersible aquarium heater, covering essential safety instructions, operating procedures, maintenance tips, warranty information, and technical specifications for optimal aquarium temperature control.</p>
	<p><a href="#">Hitauing Aquarium Heater User's Manual</a></p> <p>User manual for the Hitauing Aquarium Heater, detailing instructions, product features, installation, safety precautions, and troubleshooting.</p>
 <p>Hygger HG253 USER MANUAL hygger Precise Aquarium Heater</p>  <p><small>hygger Precise Aquarium Heater is a perfect heater for your freshwater or saltwater aquarium. *Note: The control is not waterproof, do not allow it to get wet!*</small></p>	<p><a href="#">Hygger HG253 Precise Aquarium Heater User Manual</a></p> <p>User manual for the Hygger HG253 Precise Aquarium Heater, detailing features, product parameters, installation instructions, temperature setting, troubleshooting, maintenance, and safety warnings for freshwater and saltwater aquariums.</p>