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> VCRAZE Aquarium Heater 200W with External Thermostat (Model Y-818200) Instruction Manual

VCRAZE Y-818200

VCRAZE Aquarium Heater 200W (Model Y-818200) Instruction Manual

Your guide to efficient and safe aquarium heating.

1. INTRODUCTION

Thank you for choosing the VCRAZE Aquarium Heater. This 200W model (Y-818200) is designed to provide precise and efficient temperature control for your aquatic environment. Featuring advanced inverter technology, an external digital thermostat, and multiple safety protections, this heater ensures a stable and safe habitat for your fish and aquatic pets. It is suitable for both fresh and marine water applications.

Faster Heating, Higher Efficiency

The **Inverter Technology** is extensively used in air conditioners, refrigerators, or washing machines for HIGHER EFFICIENCY and LONGER LIFE-SPAN.

Now we are using it for our heaters.

Inverter Temperature Comparison

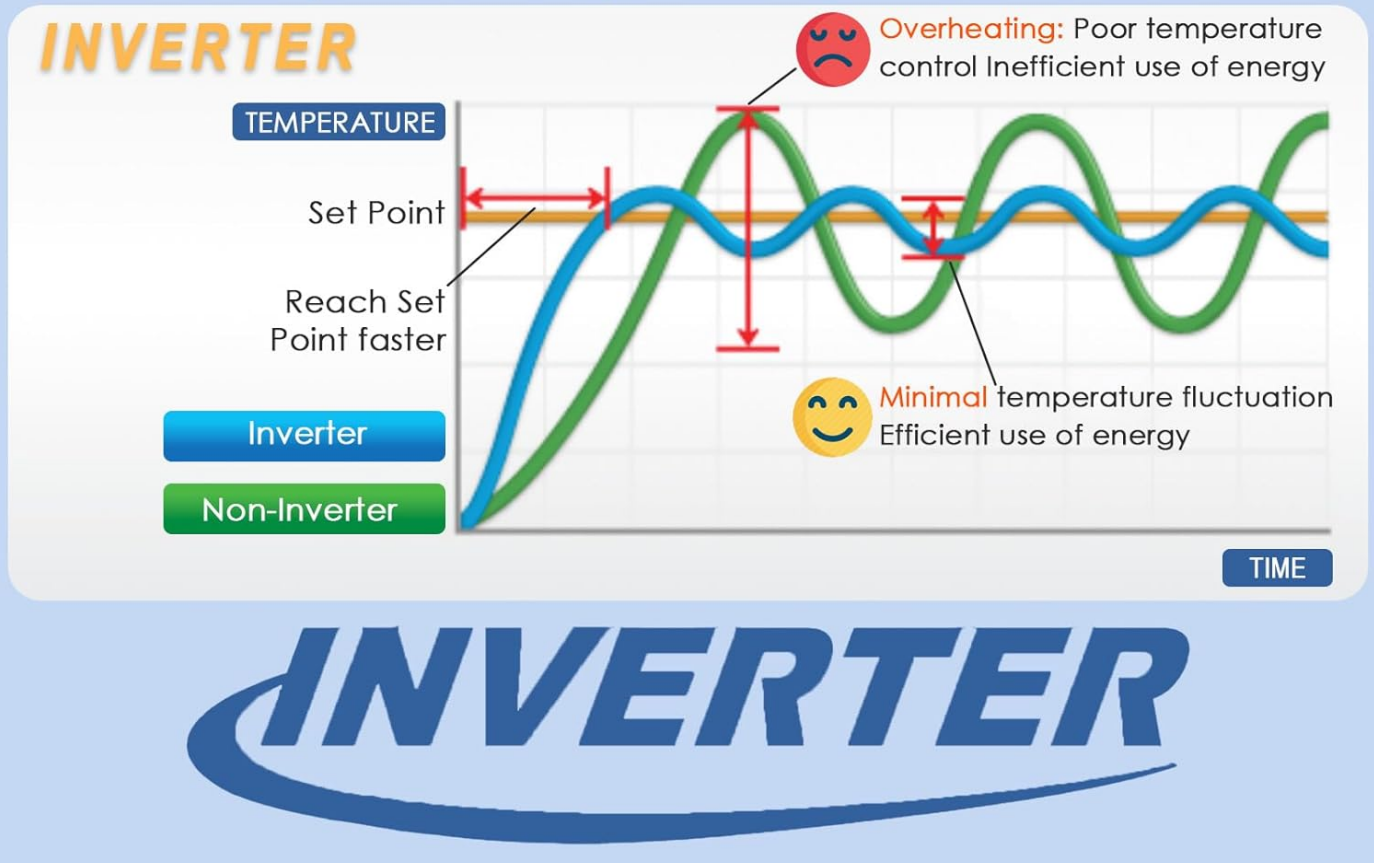


Image 1: VCRAZE 200W Aquarium Heater with external thermostat and heating element.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating this appliance. Failure to do so may result in injury or damage to the product or your aquarium.

- **Full Submergence:** The heater MUST be fully submerged in water at all times during operation. The dry-run protection sensor is located at the top of the heater. If the heater is laid flat or inverted, the sensor may fail to detect dropping water levels, which can lead to overheating and burnout.
- **Power Off Before Handling:** Always unplug the heater from the power outlet before performing any maintenance, cleaning, or handling the unit.
- **Water Circulation:** Ensure adequate water circulation around the heater for optimal performance and even heat distribution.
- **Temperature Range:** Do not attempt to set the temperature outside the specified range of 59°F to 93°F (15°C to

34°C).

- **Dry-Run Protection (E1):** The heater is equipped with a sensor to prevent operation when the water level drops below the minimum. An 'E1' error will be displayed.
- **Overheat Protection (HH):** If the water temperature exceeds 95°F (35°C), the heater will automatically stop working and display 'HH'.
- **Memory Function:** In case of a power outage, the heater will revert to the last set temperature when power is restored.
- **Child Safety:** Keep the external thermostat away from water and out of reach of children.
- **Damage Inspection:** Regularly inspect the heater and power cord for any signs of damage. Do not use if damaged.

3. PRODUCT OVERVIEW

The VCRAZE Aquarium Heater incorporates advanced features for reliable and precise temperature management.

3.1 Inverter Technology

This heater utilizes cutting-edge inverter technology, similar to that found in modern appliances, to achieve quicker water heating and maintain a consistent temperature with minimal fluctuation. This technology also contributes to a longer lifespan for the heater compared to traditional models.

Easy Operation

The external digit display thermostat is super easy to operate comparing with the traditional heaters.

- No Wet Hand
- Dual Display
- Easy Setting
- Easy Reading

Caution:
Keep the thermostat away from water



Temp. Range:
59-93°F (15-34°C)



Red - Heating

Blue - Keep at constant temp

Current water temp.

Target water temp.

SET button for temp.setting

**Press SET and hold for 5 seconds to change from°F to °C

Image 2: Inverter Technology provides faster heating and minimal temperature fluctuations.

3.2 External Digital Thermostat

The external thermostat features built-in chips for accurate water temperature readings (up to $\pm 1^\circ\text{F}$). Its dual digital display shows both the current water temperature and your set temperature, simplifying operation and monitoring. This offers greater precision than traditional knob-controlled heaters.

Designed with Details

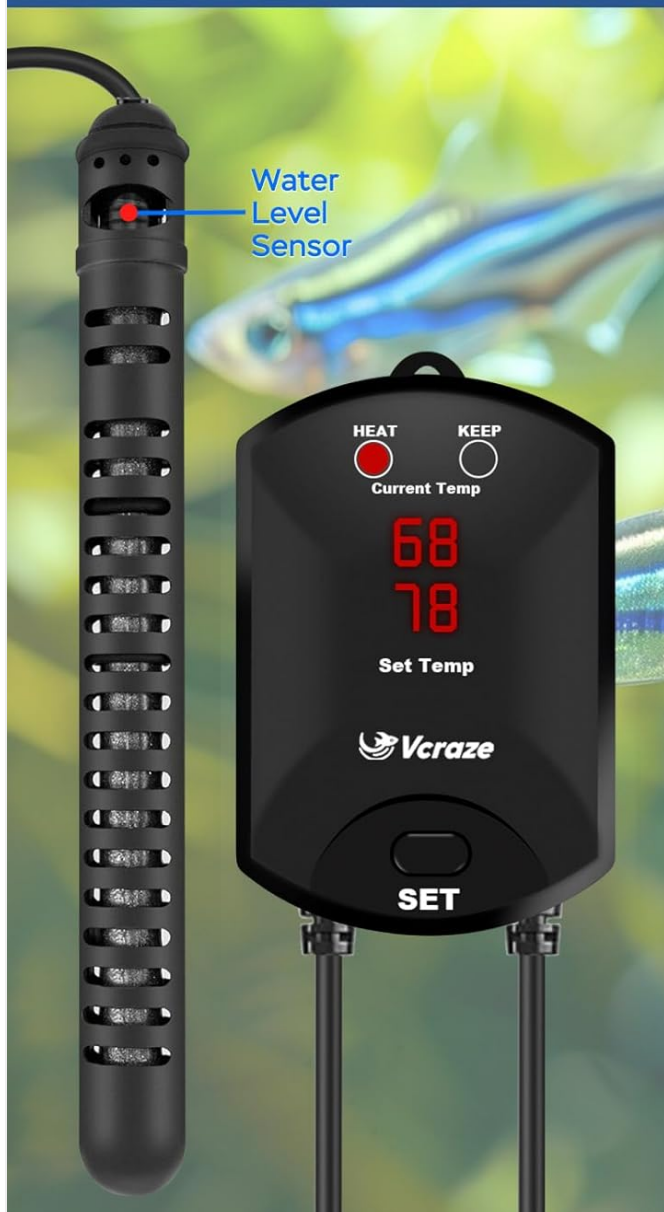


Image 3: The external digital thermostat offers precise electronic control.

3.3 Premium Materials and Design

The heater is constructed with a sturdy nickel-chromium heating wire and highly conductive sand, all encased within a shatterproof quartz glass tube. An outer ABS plastic casing with multiple slots protects your fish from direct contact with the heating element, preventing burns.

Multiple Protections



Dry Run Protection (E1)

Prevents the heater from running dry, displays error code (E1) if not fully submerged.

REMINDER: Place the heater vertically or at an angle to keep the water level sensor (As shown by the red dot in the left image) at the top, as horizontal placement may cause dry-run protection to fail if water level drops.

Overheat Protection (HH)

When the water temp. exceeds 95°F or 35 °C, the heater will stop working and display HH.

Memory Function

In case of a power cut, when the power recovers the heater will follow the last setting. This relieves the users from worry of “cooking fish” after power cut!

Image 4: Heater construction details, including protective casing and quartz glass.

4. INSTALLATION (SETUP)

Proper installation is crucial for the heater's performance and safety.

1. **Choose the Right Wattage:** Select a heater wattage appropriate for your tank size. The 200W model is suitable for tanks between 20-40 gallons. This recommendation aims to keep your aquarium at a constant 18°F (10°C) degrees higher than your room temperature.
2. **Attach Suction Cups:** Securely attach the provided suction cups to the heater element.
3. **Positioning:** The heater can be positioned vertically or horizontally within the fish tank. However, it **MUST** be fully submerged in water. Ensure the water level sensor (a red dot on the left image of the heater) is at the top if placing vertically, or fully submerged if horizontal, to prevent dry-run protection failure. Avoid laying it flat or inverting it.
4. **Submerge Heater:** Place the heater inside the aquarium, ensuring it is completely submerged.
5. **Ensure Circulation:** Provide enough water circulation around the heater.

6. **Connect Thermostat:** Position the external thermostat in a dry, accessible location outside the tank.

7. **Plug In:** Once the heater is properly positioned and submerged, plug the power cord into a suitable electrical outlet.



Choose the Right Heater

- 200W 20-40Gal
- 300W 40-75Gal
- 500W 75-120Gal
- 800W 120-160Gal

This recommendation is aiming at keeping your aquarium at a constant 18F (10C) degrees higher than your room temp.



Installation

- Heater should be submerged in water all the time.
- Provide enough circulation to water.
- Heater can be positioned vertically or horizontally in aquariums.

Image 5: Correct positioning of the heater for optimal function and safety.



Image 6: Guide for choosing the right heater wattage and installation.

5. OPERATION

Operating your VCRAZE Aquarium Heater is straightforward with its external digital thermostat.

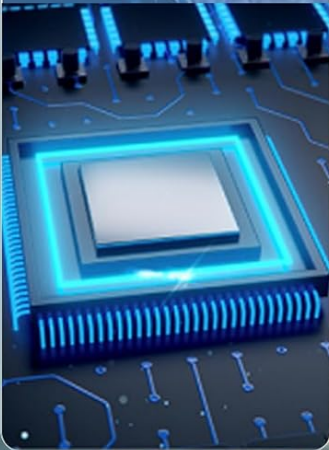
1. **Power On:** Plug the heater into a power outlet. The digital display on the external thermostat will light up.
2. **Monitor Temperature:** The top red number on the display shows the **Current Temp** of the water. The bottom red number shows the **Set Temp**.
3. **Set Temperature:** Press the 'SET' button on the external thermostat to adjust the desired temperature. Each press will cycle through the available temperature settings. The temperature range is 59°F to 93°F (15°C to 34°C).
4. **Heating Indicator:** A red 'HEAT' indicator light will illuminate when the heater is actively heating the water.
5. **Maintain Temperature:** Once the water reaches the set temperature, the 'HEAT' light will turn off, and a blue 'KEEP' indicator light will illuminate, signifying that the heater is maintaining the desired temperature.
6. **Change Units (°F/°C):** To switch between Fahrenheit (°F) and Celsius (°C), press and hold the 'SET' button for 5 seconds.

More Accurate External Digital Thermostat

The electronic thermostat is much more accurate than the traditional heaters that uses a control knob to set the temperature.

DIGITAL ELECTRONIC

Thermostat with built-in chips to control the temp. very accurately.

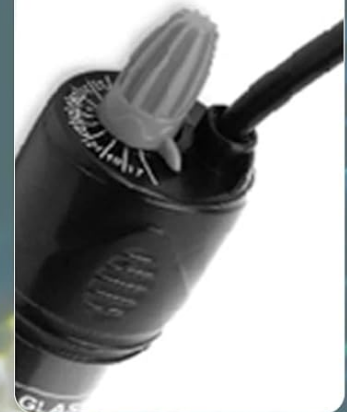


Digital Electronic Control



BIMETAL

Traditional Bimetal Thermostat controls temp. by 2 metals of different expansion rate. Accuracy is much lower.



Manual Control

Image 7: Easy operation of the external digital thermostat.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the heater element to remove algae or mineral buildup. Always unplug the heater and allow it to cool completely before removing it from the tank for cleaning. Use a soft brush or cloth and warm water. Do not use harsh chemicals or abrasive materials.
- **Inspect Casing:** Check the protective ABS plastic casing for any cracks or damage.
- **Cord Inspection:** Examine the power cord for fraying, cuts, or other damage.
- **Suction Cups:** Ensure suction cups are securely holding the heater in place. Replace if they lose their grip.

7. TROUBLESHOOTING

If you encounter issues with your heater, refer to the following common problems and solutions:

Problem	Error Code/Indicator	Possible Cause	Solution
Heater not heating / Displaying 'E1'	'E1' on display, 'HEAT' light off	Dry-run protection activated (heater not fully submerged or water level too low).	Ensure the heater is fully submerged and the water level is adequate. Check heater positioning.
Water too hot / Displaying 'HH'	'HH' on display, 'HEAT' light off	Overheat protection activated (water temperature exceeded 95°F/35°C).	Unplug the heater and allow the water to cool. Check the set temperature. Ensure proper water circulation.
Heater not turning on	No display, no lights	No power, loose connection, or unit malfunction.	Check power outlet and connections. Ensure the power cord is not damaged. If issues persist, contact support.
Inaccurate temperature reading	Current temp differs significantly from external thermometer	Sensor interference or placement.	Ensure the sensor on the heater is not obstructed and is in an area with good water flow.

If troubleshooting steps do not resolve the issue, please refer to the Warranty and Support section.

8. SPECIFICATIONS

Feature	Detail
Model Number	Y-818200
Wattage	200W
Recommended Tank Size	20-40 Gallons
Temperature Range	59°F - 93°F (15°C - 34°C)
Voltage/Frequency	120V/60Hz
Heater Dimensions (LxWxH)	1.18 x 1.18 x 12.2 inches (3 x 3 x 31 cm)
Item Weight	1.21 pounds
Material	Shatterproof Quartz Glass, ABS Plastic Casing, Nickel-Chromium Heating Wire
Water Type	Freshwater and Marine Water
Included Components	Aquarium heater, Suction cups

9. WARRANTY AND SUPPORT

The VCRAZE Aquarium Heater (Model Y-818200) comes with a **1 Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact VCRAZE customer service. You can typically find contact information on the product packaging or through the retailer where you purchased

the item.

Please retain your proof of purchase for warranty validation.

