

## Orlushy 150W

# Orlushy 150W Submersible Aquarium Heater Instruction Manual

Model: 150W

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective operation of your Orlushy 150W Submersible Aquarium Heater. Please read these instructions thoroughly before installation and use. This heater is designed to maintain a stable water temperature in aquariums, suitable for both freshwater and saltwater environments.



Image: Orlushy aquarium heater shown in diverse aquatic applications, including marine, freshwater, hydroponics, and reef tank setups.

## 2. SAFETY INSTRUCTIONS

- Always ensure the heater is fully submerged in water before connecting it to a power source.
- Do not operate the heater if the glass tube is cracked or damaged.
- Disconnect the power supply before performing any maintenance, cleaning, or handling the heater. Allow it to cool for at least 15 minutes after unplugging before removing it from the water.
- This appliance is for indoor use only and must not be used in wet conditions outside of the aquarium.
- Keep out of reach of children.
- Ensure the power cord is not damaged or pinched.
- The heater is constructed with 2mm thickened quartz glass for enhanced durability.

## THICKENED QUARTZ GLASS EXPLOSION PROOF & ANTI-CRACKING TYPE

Our product: safer for 2mm thick



Other products: 1mm thick only and risk at cracking

Image: Visual comparison highlighting the 2mm thickened quartz glass construction of the Orlushy heater, offering improved safety and crack resistance compared to standard 1mm glass.

### 3. PRODUCT FEATURES

- **Adjustable Temperature Control:** Features a precise temperature dial ranging from 68°F to 89°F (20°C to 32°C), allowing for accurate temperature regulation within a 1-degree difference.
- **Fully Submersible Design:** Can be completely immersed in water for flexible placement within the aquarium.
- **Durable Construction:** Made with 2mm thickened quartz glass, suitable for both freshwater and saltwater environments.
- **Automatic Shut-off:** Equipped with a sensitive and reliable thermostat that automatically turns off when the set temperature is reached, preventing overheating.
- **Working Indicator:** A visible indicator light signals when the heater is actively heating.



Image: Close-up view of the heater's key components: the temperature control knob, suction cup, working indicator light, protective crash pad, and fire retardant padding.

## 4. CHOOSING THE RIGHT HEATER WATTAGE

To ensure efficient heating, select a heater wattage appropriate for your aquarium's volume. A general guideline is 2 watts per liter of water.

### Step 1: Calculate the Volume of Water

Volume of water (L) = Length (cm) \* Width (cm) \* Height (cm) / 1000

### Step 2: Calculate Needed Wattage

Needed wattage (W) = Volume of water (L) \* 2

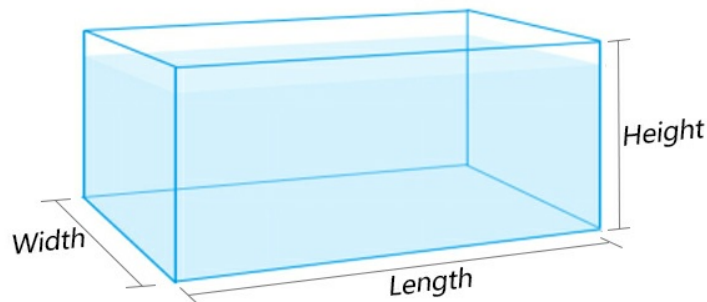
For example, if your fish tank volume is 240L, the needed wattage is 480W. In this case, a 500W heater would be recommended.

### *How to choose the right heater?*

Based on the volume of water of the fish tank: In general, 2 wattage is needed for per liter water

#### **Step 1:** Calculate the volume of water

- Volume of water (L) =  $L * W * H$  (cm) / 1000



#### **Step 2:** Calculate needed wattage

- Needed wattage (W) = volume of water (L) \* 2
- If the volume of water of your fish tank is 240L, the needed wattage is 480W, and you are recommended to choose the 500W heater

Image: A diagram demonstrating the calculation of aquarium volume and the subsequent determination of appropriate heater wattage based on tank dimensions.



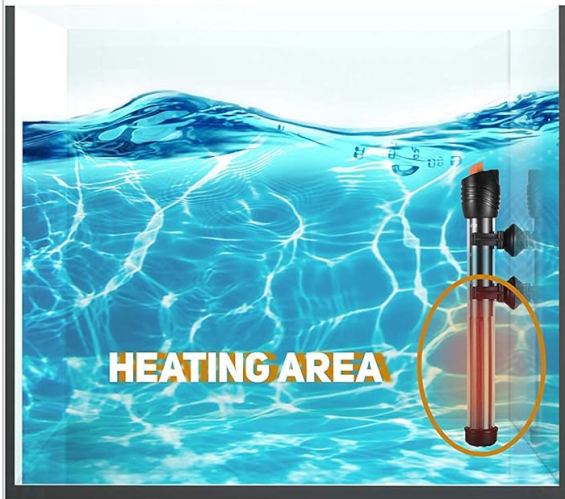
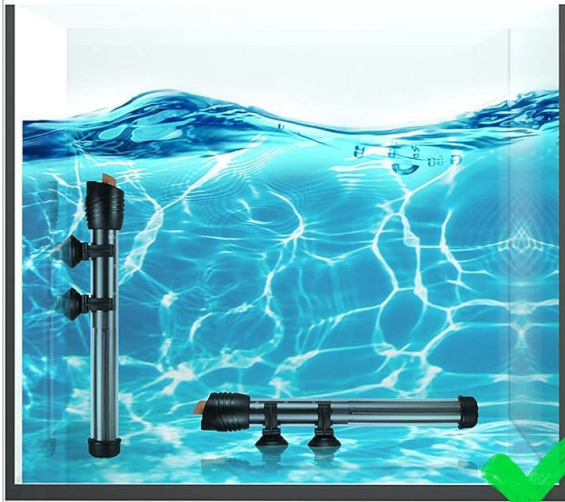
Image: A visual guide displaying different Orlushy heater models (100W, 150W, 200W, 300W, 500W) and their respective lengths, aiding in selection.

## 5. INSTALLATION

1. **Placement:** Position the heater fully submerged inside the fish tank. It can be installed vertically or horizontally.
2. **Secure with Suction Cups:** Use the provided suction cups to firmly attach the heater to the inner glass wall of the aquarium. Ensure the suction cups are not placed directly over the heating element to avoid heat dissipation issues or deformation of the cups.
3. **Water Level:** Always ensure the water level in the tank is sufficient to keep the entire heater submerged. Exposing any part of the main body of the heater to air while in operation can cause damage.
4. **Power Connection:** Once securely installed and fully submerged, connect the heater to a suitable power outlet.

# INSTALLATION

Install the heater fully immersed in water



Do not fix the suction cups in the heating area, or it will influence dissipation of heat and even cause deformation of the suction cups.

Image: An illustration demonstrating correct installation methods, showing the heater fully submerged, and incorrect methods, where the heater is partially exposed or suction cups are improperly placed.

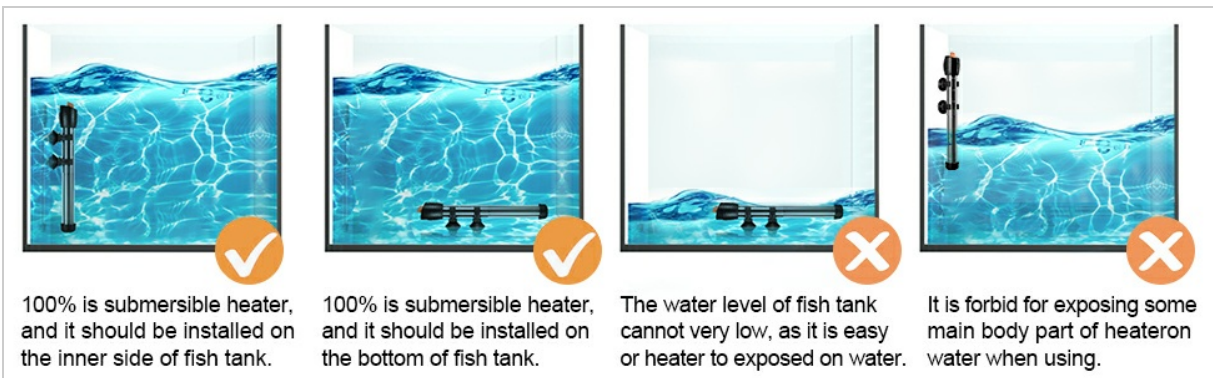


Image: A visual guide emphasizing the importance of 100% submersible installation, illustrating both correct full submersion and incorrect partial submersion scenarios.

## 6. OPERATING INSTRUCTIONS

### Setting the Temperature

Rotate the temperature control knob on the top of the heater to align with your desired temperature setting. The dial provides values such as 68, 72, 75, 79, 82, 86, and 89 degrees Fahrenheit.

## Temperature Calibration

Upon initial installation, it is recommended to monitor the aquarium temperature with a separate, accurate thermometer for the first 24-48 hours. Adjust the heater's knob incrementally to achieve the desired temperature.

- If the measured temperature is lower than the set temperature, increase the setting on the knob.
- If the measured temperature is higher than the set temperature, decrease the setting on the knob.

Small adjustments and observation periods are crucial for precise calibration.



Image: A calibration guide illustrating how to adjust the temperature control knob based on whether the aquarium water is below or above the desired set temperature.

## 7. MAINTENANCE

- **Regular Cleaning:** Periodically clean the heater's surface to prevent algae and mineral buildup, which can affect efficiency. Always unplug the heater and allow it to cool before removing it from the water for cleaning.
- **Inspection:** Regularly inspect the heater for any signs of damage, such as cracks in the glass or frayed power cords. Discontinue use immediately if any damage is observed.
- **Suction Cups:** Check the suction cups periodically to ensure they maintain a firm grip on the aquarium glass. Replace if they lose their adhesion.

## 8. TROUBLESHOOTING

- **Heater Not Heating:**
  - Check if the power cord is securely plugged in.
  - Verify that the power outlet is functional.
  - Ensure the temperature setting is higher than the current aquarium water temperature.
  - Confirm the heater is fully submerged.
- **Temperature Fluctuations:**
  - Recalibrate the heater using a separate, accurate thermometer.
  - Ensure adequate water circulation around the heater.
  - Check if the heater wattage is appropriate for your tank size.
- **Indicator Light Not On:**
  - The indicator light only illuminates when the heater is actively heating. If the water is at or above the set temperature, the light will be off.
  - If the water temperature is below the set point and the light is still off, check power connection and heater functionality.

## 9. SPECIFICATIONS

<b>Model</b>	150W
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<b>Wattage</b>	150 Watts
<b>Voltage</b>	110-120V
<b>Heater Length</b>	9.5 inches (24.13 cm)
<b>Power Cord Length</b>	6 feet
<b>Recommended Tank Size</b>	30 to 50 gallons (approx. 113 to 189 liters)
<b>Temperature Range</b>	68°F to 89°F (20°C to 32°C)
<b>Material</b>	2mm Thickened Quartz Glass
<b>Manufacturer</b>	Nova pet supplies co.LTD

## 10. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the product packaging or contact the retailer where the product was purchased. Keep your proof of purchase for any warranty claims.