

ZTBH JP-450G

ZTBH JP-450G 6W Water Pump Instruction Manual

Model: JP-450G

1. INTRODUCTION

Thank you for choosing the ZTBH JP-450G 6W Water Pump. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your water pump. This pump is designed as a replacement component for filter canisters such as the Sunsun HW-603b and HW-602b, suitable for various aquatic and hydroponic applications.

Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

- **Electrical Safety:** Ensure the power supply voltage matches the pump's requirements (110V or 220V as specified on your unit). Always disconnect power before handling, installing, or performing maintenance on the pump. Do not operate the pump with a damaged power cord or plug.
- **Water Immersion:** This pump is designed for submersible use. Ensure it is fully submerged in water during operation to prevent overheating and damage.
- **Placement:** Position the pump securely to prevent movement during operation.
- **Children and Pets:** Keep the pump and its electrical connections out of reach of children and pets.
- **Intended Use:** Use this pump only for its intended purpose as a water circulation component in aquariums, ponds, or hydroponic systems. Do not use with flammable or corrosive liquids.

3. PRODUCT FEATURES

- **High Performance:** Provides a maximum output of 400 liters per hour (L/h) with 6W power consumption.
- **Efficiency:** Designed for quick start and high operational efficiency.
- **Durability:** Constructed for long service life.
- **Easy Maintenance:** Detachable design allows for tool-free disassembly and cleaning.
- **Versatile Application:** Suitable for various water features including backyard fountains, waterfalls, aquariums, ponds, fish tanks, tabletop fountains, garden statuary, patio drip irrigation, and hydroponic systems.

4. SPECIFICATIONS

Parameter	Value
Model	JP-450G
Power Consumption	6W
Maximum Flow Rate	400 L/h
Voltage	110V or 220V (depending on model variant)
Item Weight	Approximately 300 grams (10.6 ounces)
Color	Black

5. SETUP AND INSTALLATION

- Unpack:** Carefully remove the pump from its packaging. Inspect for any damage.
- Component Check:** Ensure all parts are present, including the pump body, impeller cover, and power cord.
- Canister Connection:** This pump is designed to integrate with filter canisters like the Sunsun HW-603b and HW-602b. Connect the pump's outlet to the appropriate inlet of your filter canister. Ensure a secure and watertight connection.
- Placement:** Place the pump inside the water body (aquarium, pond, or filter sump) where it will operate. Ensure it is fully submerged and positioned stably. The suction cups (if included) can be used to secure it to a smooth surface.
- Power Connection:** Route the power cord safely, avoiding kinks or damage. Plug the pump into a grounded electrical outlet that matches the pump's voltage requirements. Ensure a drip loop is formed to prevent water from traveling along the cord to the outlet.



Image 1: ZTBH JP-450G Water Pump connected to a filter canister, demonstrating typical installation.



Image 2: Overview of the ZTBH JP-450G Water Pump, showing its compact design and integrated power cord.

6. OPERATING INSTRUCTIONS

1. **Initial Start-up:** After ensuring the pump is fully submerged and all connections are secure, plug the pump into the power outlet. The pump should start immediately, circulating water.
2. **Monitoring:** Observe the pump's operation for the first few minutes. Check for proper water flow and ensure there are no unusual noises or vibrations.
3. **Continuous Operation:** The pump is designed for continuous operation. Ensure the water level remains adequate to keep the pump fully submerged.
4. **Shut Down:** To turn off the pump, simply unplug it from the electrical outlet.

7. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient performance of your ZTBH water pump. Always disconnect

the pump from the power supply before performing any maintenance.

- 1. **Disassembly:** The pump is designed for easy, tool-free disassembly. Gently twist and pull the front cover or base to access the impeller chamber.
- 2. **Impeller Cleaning:** Remove the impeller. Clean the impeller and its chamber thoroughly using a soft brush and clean water to remove any accumulated debris, algae, or mineral deposits.
- 3. **Housing Cleaning:** Clean the pump housing and any connected tubing or filters.
- 4. **Reassembly:** Reassemble the pump, ensuring the impeller is correctly seated and all covers are securely fastened.
- 5. **Frequency:** Perform cleaning every 2-4 weeks, or more frequently depending on water conditions and usage.



Image 3: The ZTBH JP-450G Water Pump disassembled, illustrating the impeller and its housing for cleaning.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start or operate.	No power, clogged impeller, damaged motor.	Check power connection and outlet. Disconnect power and clean impeller. If still not working, contact support.
Low water flow.	Clogged impeller, blocked intake/outlet, insufficient water level.	Disconnect power and clean impeller and intake/outlet. Ensure pump is fully submerged.
Unusual noise or vibration.	Debris in impeller, worn impeller, pump not stable.	Disconnect power and clean impeller. Ensure pump is securely placed. If noise persists, impeller may need replacement.

9. WARRANTY AND SUPPORT

For any product quality issues, operational problems, or technical assistance, please contact ZTBH customer support immediately. Our team is dedicated to helping you resolve any concerns you may have.

Please refer to your purchase documentation for specific warranty terms and contact information.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question