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ZTBH JT-750

ZTBH JT-750 DC Small Water Pump Instruction Manual

Model: JT-750

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your ZTBH JT-750 DC Small Water Pump. Please read these instructions carefully before using the pump to ensure proper function and longevity.
The ZTBH JT-750 is a compact DC brushless water pump designed for various applications such as fountains, aquariums, ponds, and hydroponic systems. It features a high-efficiency design and a long service life.

2. Safety Information

- Ensure the pump is always submerged in water during operation to prevent overheating and damage.
- Verify that the power supply voltage matches the pump's specified voltage (6-12V or 8-24V depending on model). Incorrect voltage can damage the pump.
- Do not operate the pump with damaged power cables or connectors.
- Disconnect power before performing any maintenance or cleaning.
- Keep the pump away from flammable materials.
- This pump is designed for water circulation only. Do not use it for pumping corrosive liquids, oils, or other non-water substances.

3. Setup and Installation

3.1 Unpacking

Carefully remove the pump and its accessories from the packaging. Check for any visible damage. The package should include one DC brushless water pump and two rubber fixed feet.

3.2 Component Identification



Figure 1: Overview of the ZTBH JT-750 DC Small Water Pump. This image shows the compact pump body with its integrated power cable and connector.

- **Pump Body:** Contains the motor and impeller.
- **Inlet:** The opening where water enters the pump (16mm diameter).
- **Outlet:** The nozzle where water exits the pump (12mm diameter).
- **Power Cable:** Connects the pump to the DC power source (1.5 meters long).
- **Rubber Fixed Feet:** For stable placement and vibration reduction.

3.3 Placement and Mounting

Place the pump in the desired location, ensuring it will be fully submerged in water during operation. The rubber fixed feet can be attached to the bottom of the pump for stability and to reduce vibration noise.



Figure 2: ZTBH JT-750 pump with the included rubber fixed feet. These feet help secure the pump and minimize operational vibrations.

3.4 Connections



Figure 3: Detailed view of the pump's inlet (larger opening) and outlet (smaller nozzle). Ensure hoses are securely connected to these ports.

1. **Hose Connection:** Connect appropriate hoses to the inlet (16mm) and outlet (12mm) ports. Ensure connections are secure to prevent leaks.
2. **Power Connection:** Connect the pump's power cable to a compatible DC power source (e.g., 12V or 24V DC adapter, solar panel controller). Ensure polarity is correct if not using a standard DC barrel jack.

4. Operating Instructions

4.1 Starting the Pump

Once the pump is fully submerged and all connections are secure, apply power to the pump. The pump should start immediately. If it does not, refer to the Troubleshooting section.

4.2 Flow Rate and Water Head

The pump's flow rate and water head (lifting height) depend on the input voltage and system resistance. The 12V type offers up to 700 L/h, while the 24V type offers up to 900 L/h. The maximum water head is 5 meters. Adjust the power supply or system setup as needed to achieve desired performance.

5. Maintenance

5.1 Cleaning

Regular cleaning is crucial for maintaining pump efficiency and extending its lifespan. Disconnect power before cleaning.

- Remove any debris, algae, or mineral buildup from the pump's inlet, outlet, and impeller area.

- Use a soft brush and clean water. Do not use harsh chemicals or abrasive materials.
- For hard water deposits, a mild vinegar solution can be used, followed by thorough rinsing with clean water.

5.2 Storage

If the pump will not be used for an extended period, especially during freezing temperatures:

- Disconnect power and remove the pump from the water.
- Clean the pump thoroughly as described above.
- Allow the pump to dry completely.
- Store in a dry, frost-free location.

6. Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power supply Incorrect voltage Blocked impeller	Check power connection Verify voltage matches pump rating Disconnect power and clear impeller
Low flow rate	Clogged inlet/outlet Kinked hose Insufficient water level Air in system	Clean inlet/outlet Straighten hose Ensure pump is fully submerged Bleed air from system
Excessive noise/vibration	Debris in impeller Improper mounting Pump not fully submerged	Disconnect power and clear impeller Ensure rubber feet are used and pump is stable Ensure pump is fully submerged

7. Specifications

Feature	Specification
Pump Type	DC Brushless Water Pump
Inlet Diameter	16mm
Outlet Diameter	12mm
Max Flow Rate (12V)	700 L/h
Max Flow Rate (24V)	900 L/h
Max Water Head	5 meters
Power Cable Length	1.5 meters
Max Circulating Water Temperature	60°C
Weight	250g (approx.)

Feature	Specification
Material	Plastic, Stainless Steel

8. Warranty and Support

For any product quality or usage issues, please contact the seller or manufacturer immediately. Please refer to your purchase documentation for specific warranty terms and conditions.
For further assistance, please reach out to the customer support channel provided at the time of purchase.

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