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DEWIN HCY-ZLSB

DEWIN 24V DC Brushless Mini Boost Water Pump (Model HCY-ZLSB)

Instruction Manual

1. Introduction

Thank you for choosing the DEWIN 24V DC Brushless Mini Boost Water Pump. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your water pump. Please read this manual thoroughly before use and retain it for future reference.

2. Safety Information

To ensure safe operation and prevent damage, please observe the following safety precautions:

- Always disconnect power before performing any installation, maintenance, or troubleshooting.
- This pump is designed for use with a **24V 2A DC power supply**. Using an incorrect voltage or current can damage the pump and pose a safety risk.
- Ensure all electrical connections are secure and properly insulated to prevent short circuits or electric shock.
- Do not operate the pump dry. Ensure it is fully submerged or primed with water before starting.
- Keep the pump away from flammable materials.
- The pump is suitable for water temperatures between -40 °C and 100 °C. Operating outside this range may cause damage.
- Handle the pump with care to avoid physical damage.

3. Product Overview

The DEWIN 24V DC Brushless Mini Boost Water Pump is a compact, high-performance pump designed for various water circulation and boosting applications.

3.1 Features

- **High-Quality Material:** Constructed from durable materials with specially processed bearings, seals, and stainless steel shafts for extended service life.
- **Efficient Performance:** Delivers a maximum hydraulic head of 7 meters, suitable for various boosting needs.

- **Low Noise Operation:** Features a brushless motor for stable performance and quiet operation.
- **Energy-Saving Design:** Compact size with high power output, designed for energy efficiency and environmental protection.
- **Versatile Application:** Ideal for water heaters, fountains, cabinet systems, and other compatible equipment.

3.2 Product View



Figure 1: DEWIN 24V DC Brushless Water Pump partially submerged in water, illustrating its compact size, high power, energy efficiency, and low noise operation.



Figure 2: Top-down view of the DEWIN 24V DC Brushless Mini Boost Water Pump, showing its compact black plastic housing and threaded connectors.

4. Technical Specifications

Specification	Value
Motor Type	Brushless Motor
Voltage	24V
Current	1.2A
Flow Rate	1000 L/H

Specification	Value
Starting Voltage	6V
Hydraulic Head (Max)	7M
Noise Level	Less than 30dB
Water Temperature Range	-40 ℃ to 100 ℃
Inlet Caliber	20mm
Outlet Caliber	20mm
Weight	Approx. 236 g
Power Source	Wired Electric
Material	Plastic
Model Number	HCY-ZLSB
Manufacturer	Dewin
Package Dimensions	14.3 x 11.8 x 4.9 cm

5. Package Contents

The package includes:

- 1 x DEWIN 24V DC Brushless Mini Boost Water Pump (Model HCY-ZLSB)

6. Setup and Installation

Follow these steps for proper installation:

1. **Prepare the Location:** Choose a suitable location for the pump, ensuring it is stable and allows for proper water flow and electrical connections. The pump is designed for submersible or inline use.
2. **Connect Water Lines:** Attach the inlet and outlet water pipes to the pump's 20mm caliber connectors. Ensure connections are tight to prevent leaks.
3. **Power Connection:** Connect the pump to a **24V 2A DC power supply**. Ensure the polarity is correct (usually indicated by wire colors, e.g., brown for positive, blue for negative). **Warning: Using an incorrect power supply can damage the pump.**
4. **Priming (if not submersible):** If the pump is not fully submerged, ensure it is properly primed with water before starting to prevent dry running.
5. **Secure the Pump:** If necessary, secure the pump in place using its mounting points to prevent movement during operation.



Figure 3: The DEWIN 24V DC Boost Water Pump shown in a shower setting, illustrating its application for boosting water pressure in water heater systems.



Figure 4: Close-up view of the DEWIN 24V DC Boost Water Pump's power connector and threaded water inlets/outlets, highlighting the robust design and connection points.

7. Operating Instructions

Once the pump is correctly installed and connected to the appropriate power supply:

1. **Power On:** Turn on the 24V DC power supply. The pump will begin to operate.
2. **Check Flow:** Verify that water is flowing correctly through the system and that there are no leaks.
3. **Monitor Performance:** The pump operates with low noise and stable performance. Listen for any unusual sounds or vibrations, which may indicate an issue.
4. **Power Off:** To stop the pump, simply turn off the 24V DC power supply.

8. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your pump:

- **Regular Inspection:** Periodically inspect the pump and connections for any signs of wear, damage, or leaks.
- **Cleaning:** If the pump is used in environments with potential debris, periodically clean the inlet and impeller area to prevent blockages. Always disconnect power before cleaning.
- **Temperature Monitoring:** Ensure the pump operates within its specified water temperature range (-40 °C to 100 °C).
- **Storage:** If storing the pump for an extended period, drain all water from it and store it in a dry, protected environment.

9. Troubleshooting

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

Problem	Possible Cause	Solution
Pump does not start	No power; Incorrect voltage; Loose connections; Damaged pump.	Check power supply (24V DC); Verify connections; Inspect for damage.
Low water flow	Air in system; Blocked inlet/outlet; Insufficient power; Pump not primed.	Bleed air from system; Clean blockages; Ensure stable 24V 2A DC power; Prime the pump.
Unusual noise/vibration	Debris in impeller; Dry running; Loose mounting.	Disconnect power and clear debris; Ensure pump is submerged/primed; Secure mounting.
Water leakage	Loose connections; Damaged seals/pipes.	Tighten all connections; Inspect and replace damaged seals or pipes.

If the problem persists after attempting these solutions, please contact customer support.

10. Warranty and Support

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your purchase receipt as proof of purchase.

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