

Jebao DCP-2500

Jebao Jecod DCP-2500 Sine Wave Water Return Pump User Manual

Model: DCP-2500

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your Jebao Jecod DCP-2500 Sine Wave Water Return Pump. The DCP series pumps are designed for enhanced performance and precise flow control in aquarium systems, including reactors, sumps, and closed-loop setups. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. SAFETY INSTRUCTIONS

- This pump is designed for **internal use only** within an aquarium system. Do not use it for external applications or outside of water.
- Ensure the power supply matches the pump's requirements (110-120V, 60Hz).
- Always disconnect power before performing any maintenance, installation, or cleaning.
- The pump contains no copper components, ensuring safety for aquatic life in your tank.
- Do not operate the pump dry. Ensure it is fully submerged before powering on.
- Keep the controller and power adapter away from water to prevent electrical hazards.
- Regularly inspect the power cord and pump for any damage. Do not use if damaged.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- DCP-2500 Sine Wave Water Return Pump unit
- AC adapter
- DCP Controller
- Hose fittings (1" and 3/4")
- PVC fitting (1-1/4")

4. PRODUCT OVERVIEW

The Jebao Jecod DCP-2500 pump system includes the main pump unit, a dedicated controller for flow adjustment, and various fittings for integration into your plumbing.



Figure 1: Complete package contents of the Jebao Jecod DCP-2500 pump, including the pump unit, controller, power adapter, and various hose fittings.



Figure 2: A detailed view of the Jebao Jecod DCP-2500 pump unit, highlighting its compact design and intake grate.

5. SETUP AND INSTALLATION

1. **Choose Location:** Place the pump in your sump or desired water reservoir, ensuring it is fully submerged and stable.
2. **Attach Fittings:** Select the appropriate hose fitting (1" or 3/4") or PVC fitting (1-1/4") for your plumbing system. Securely attach it to the pump's outlet.
3. **Connect Plumbing:** Connect your aquarium's return line or other plumbing to the pump's outlet fitting. Ensure all connections are tight to prevent leaks.
4. **Connect Controller:** Plug the pump's cable into the DCP Controller.
5. **Connect Power:** Plug the AC adapter into the controller, then plug the AC adapter into a grounded electrical outlet.
6. **Verify Submersion:** Before powering on, double-check that the pump is completely submerged in water.

6. OPERATING INSTRUCTIONS

The DCP Controller provides intuitive control over the pump's functions:

- **Power On/Off:** Press the power button on the controller to turn the pump on or off.
- **Flow Adjustment:** Use the '+' and '-' buttons to increase or decrease the water flow rate. The digital display will show the current power level or flow setting.
- **Feed Mode:** Press the 'Feed' button to activate a 10-minute feed mode. The pump will temporarily shut off, allowing fish to feed without being disturbed by water flow. After 10 minutes, the pump will automatically resume its previous operation.
- **Memory Function:** The pump features a memory function that recalls the last set flow rate after a power outage, ensuring consistent operation.
- **Motor Protection:** The controller includes motor protection, which will shut down the pump if the rotor is blocked, preventing damage.

The DCP-2500 is designed for super quiet operation, minimizing noise in your aquarium environment.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your pump.

1. **Disconnect Power:** Always unplug the pump from the power source before any maintenance.
2. **Remove Pump:** Carefully remove the pump from the water.
3. **Disassemble:** Gently twist and pull apart the pump housing to access the impeller and rotor assembly.
4. **Clean Components:** Use a soft brush and clean water (or a mild vinegar solution for stubborn deposits) to remove any algae, detritus, or calcium buildup from the impeller, rotor, and pump housing. Pay close attention to the impeller blades and the ceramic shaft.
5. **Inspect O-Rings:** Check all O-rings for wear, cracks, or damage. Replace if necessary to maintain a watertight seal. Applying a small amount of O-ring lubricant can help with sealing and reassembly.
6. **Reassemble:** Carefully reassemble the pump, ensuring all parts fit correctly and O-rings are properly seated.
7. **Test:** Place the pump back into the water and reconnect power to test its operation.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not running	No power; Controller disconnected; Impeller blocked; Motor protection activated.	Check power connection; Ensure controller is connected; Disconnect power, clean impeller; Reset pump by unplugging and replugging.
Reduced flow	Impeller or intake blocked; Pump needs cleaning; Incorrect flow setting.	Disconnect power, clean pump and impeller; Adjust flow rate using '+' button on controller.
Unusual noise	Debris in impeller; Impeller worn or damaged; Pump not stable.	Disconnect power, clean impeller; Inspect and replace impeller if damaged; Ensure pump is securely placed.
Leakage	Loose fittings; Damaged O-rings.	Tighten all plumbing connections; Inspect and replace O-rings if damaged.

9. SPECIFICATIONS

Model	DCP-2500
Power Consumption	23 Watts
Voltage	110-120V, 60Hz
Maximum Flow Rate	660 GPH (11 Gallons Per Minute)
Maximum Head Height	8.2 Feet
Product Dimensions (L x W x H)	6" x 5" x 4"
Item Weight	2 Pounds
Material	PVC
Hose Fittings	1" and 3/4"
PVC Fitting	1-1/4"
Intended Use	Indoor Aquarium Systems

10. WARRANTY AND SUPPORT

This Jebao Jecod DCP-2500 pump comes with a **180-day warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage resulting from misuse, improper installation, unauthorized modifications, or normal wear and tear.

For technical support, warranty claims, or replacement parts, please contact your retailer or the manufacturer directly. Keep your proof of purchase for warranty validation.

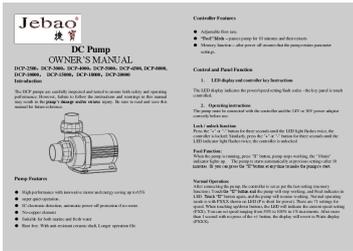
	<p>Jebao DC Pump User Manual - DCP Series</p> <p>Comprehensive user manual for Jebao DC Pumps (DCP-2500 to DCP-20000), covering features, operation, maintenance, and troubleshooting.</p>
	<p>Jebao DC Pump Owner's Manual - Models DCP-2500 to DCP-20000</p> <p>The Jebao DC Pump Owner's Manual provides comprehensive instructions for the safe operation, installation, maintenance, and troubleshooting of DCP-2500, DCP-3000, DCP-4000, DCP-5000, DCP-6500, DCP-8000, DCP-10000, DCP-15000, DCP-18000, and DCP-20000 models. Learn about features like adjustable flow rate, feed mode, memory function, and automatic power-off protection for both submersible and non-submersible applications in marine and fresh water environments.</p>
	<p>Jebao Smart Wave Maker User Manual - Setup, Operation, and Troubleshooting</p> <p>Comprehensive user manual for the Jebao Smart Wave Maker (MCP, MLW, MOW SERIES), covering installation, features, app control via Jebao Aqua, various wave modes, troubleshooting, and maintenance. Learn how to set up and operate your Jebao wave maker for optimal aquarium conditions.</p>
	<p>Jebao Cross-Flow Wave Pump User Manual: CP-90, CP-120, CP-150</p> <p>User manual for Jebao Cross-Flow Wave pumps, models CP-90, CP-120, and CP-150. Includes safety instructions, assembly guidance, controller operation, maintenance, and technical specifications.</p>
	<p>Jebao Smart DC Pump User Manual - MDP Series</p> <p>Comprehensive user manual for Jebao Smart DC Pumps (MDP Series), covering features, operation, app control, Wi-Fi setup, maintenance, and troubleshooting.</p>
	<p>Jebao UV Fountain Pump User Manual</p> <p>User manual for Jebao UFP-1000 and UFP-2000 UV fountain pumps, detailing installation, maintenance, troubleshooting, and safety instructions.</p>

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Jebao DC Pump User Manual - DCP Series

Comprehensive user manual for Jebao DC Pumps (DCP-2500 to DCP-20000), covering features, operation, maintenance, and troubleshooting.

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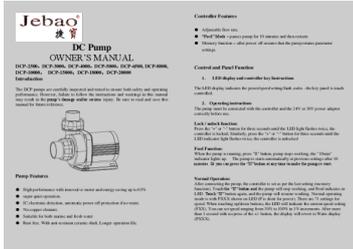
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