Manuals+
Q & A | Deep Search | Upload

Jebao DP-2

Jebao Jecod DP-2 Programmable Auto Dosing Pump User Manual

Model: DP-2

1. Introduction

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Jebao Jecod DP-2 Programmable Auto Dosing Pump. This device is designed to precisely dispense liquids into your aquarium, helping to maintain stable water parameters. Please read this manual thoroughly before use to ensure proper function and longevity of your unit.

2. Product Overview

The Jebao Jecod DP-2 is a 2-channel programmable auto dosing pump. Each channel can be programmed to dispense a precise amount of solution up to 24 times per day, ranging from 1ml to 9999ml. This functionality is ideal for maintaining consistent levels of various supplements in your aquarium, such as calcium, magnesium, or alkalinity solutions.

Key Features:

- Two independent dosing channels.
- Programmable dosing volume from 1ml to 9999ml per day per channel.
- Up to 24 programmable dosing times per day per channel.
- Suitable for various liquid supplements in aquatic environments.
- Wide voltage compatibility: 110V to 240V, 50/60Hz.

Product Components:

Figure 1: Front view of the Jebao Jecod DP-2 Dosing Pump, showing the two pump heads, control panel, and power indicators.

Figure 2: Angled view of the Jebao Jecod DP-2 Dosing Pump, highlighting the peristaltic pump heads and tubing connections.

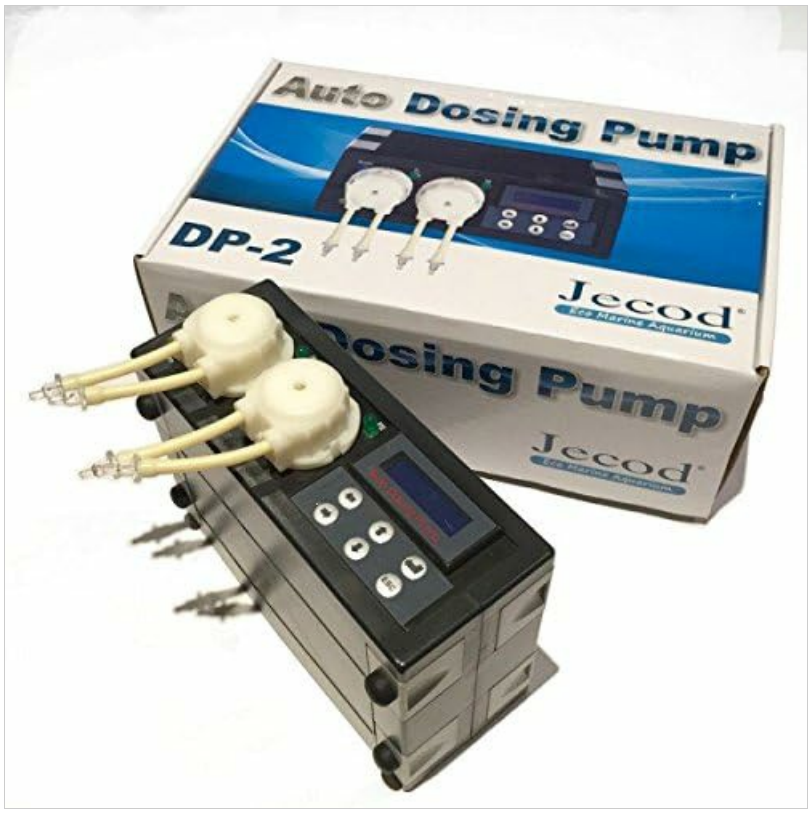

Figure 3: The Jebao Jecod DP-2 Dosing Pump shown alongside its retail packaging.

3. Setup

3.1 Unpacking

Carefully remove the dosing pump and all accessories from the packaging. Inspect the unit for any signs of damage. Retain the packaging for future transport or storage.

3.2 Component Identification

- Dosing Pump Unit (DP-2)
- AC Power Adapter
- (Dosing tubing is not included and must be purchased separately.)

3.3 Initial Placement

Place the dosing pump on a stable, dry surface. Ensure it is positioned above the liquid reservoirs to prevent siphoning and below the aquarium water level if dosing directly into the tank. Avoid placing the unit in direct sunlight or areas with high humidity.

3.4 Power Connection

1. Connect the AC power adapter to the dosing pump's power input port.
2. Plug the power adapter into a suitable electrical outlet (110V-240V, 50/60Hz).
3. The unit will power on, and the display will illuminate.

3.5 Tubing Installation

Dosing tubing is not supplied with the unit. Acquire appropriate aquarium-grade dosing tubing (e.g., silicone or PVC). Cut the tubing to the required lengths for your setup.

1. Connect one end of the tubing to the inlet port of each pump head (P1 and P2). Ensure a secure fit.

2. Place the other end of the inlet tubing into your liquid supplement reservoirs.
3. Connect tubing to the outlet port of each pump head.
4. Route the outlet tubing to your aquarium, securing it to prevent accidental displacement. Ensure the tubing ends are above the water level to prevent back-siphoning when the pump is off, or use check valves.

3.6 Calibration

Accurate calibration is crucial for precise dosing. A 100ml graduated cylinder or measuring cup (not included) is required for this step.

1. Fill a graduated cylinder with 100ml of the liquid you intend to dose.
2. Place the inlet tubing into the liquid in the cylinder and the outlet tubing into a waste container.
3. Access the calibration menu on the pump (refer to the "Operation" section for navigation).
4. Initiate a calibration cycle for the desired pump (P1 or P2). The pump will run for a set period.
5. Measure the actual volume dispensed. Adjust the calibration setting on the pump until the dispensed volume matches the target (e.g., 100ml).
6. Repeat for the second pump head.

4. Operation

4.1 Control Panel Overview

The control panel features an LCD display and several buttons for navigation and programming. Familiarize yourself with the button functions:

- **Up/Down Arrows:** Navigate through menu options and adjust values.
- **Left/Right Arrows:** Move cursor or select different parameters.
- **Enter/Set Button:** Confirm selections or enter programming mode.
- **ESC Button:** Exit current menu or cancel an action.

4.2 Programming Dosing Schedules

The DP-2 allows for highly customizable dosing schedules for each pump.

1. From the main screen, press the **Enter** button to access the main menu.
2. Navigate to the "Program" or "Setting" option using the **Up/Down** arrows and press **Enter**.
3. Select the pump you wish to program (P1 or P2).
4. Set the current time and date if prompted.
5. For each dosing event (up to 24 per day):
    - Set the desired time for the dose.
    - Set the volume to be dispensed (1ml to 9999ml).
    - Set the frequency (e.g., daily, every other day). Note: Some models may interpret '0' as daily and '1' as every other day. Consult the on-screen prompts.
6. Save your settings before exiting the programming menu.
7. Repeat the process for the second pump if needed.

Note: It is recommended to start with small dosing volumes and gradually increase as needed, monitoring your aquarium parameters closely.

4.3 Manual Dosing

The pump may offer a manual dosing function for testing or immediate dispensing. Refer to the on-screen menu for this option, typically found under a "Manual" or "Test" setting.

5. Maintenance

5.1 Routine Cleaning

Regular cleaning helps ensure optimal performance and extends the life of your dosing pump.

- Wipe the exterior of the unit with a damp cloth. Avoid using harsh chemicals.
- Periodically check tubing for blockages, kinks, or algae buildup.
- If dosing solutions are prone to crystallization, flush the tubing with distilled water regularly.

5.2 Pump Head Inspection

Inspect the peristaltic pump heads for wear and tear. The rollers and tubing inside the pump head are consumable parts and will require replacement over time.

5.3 Tubing Replacement

Dosing tubing can harden or become brittle over time, affecting dosing accuracy. Replace tubing as needed, typically every 6-12 months depending on usage and solution type.

6. Troubleshooting

Problem	Possible Cause	Solution
Pump not dispensing liquid.	• No power. • Tubing kinked or blocked. • Pump not primed. • Incorrect programming. • Pump head worn out.	• Check power connection. • Inspect and clear tubing. • Manually run pump to prime. • Verify dosing schedule and volume settings. • Inspect and replace pump head if necessary.
Inaccurate dosing volume.	• Improper calibration. • Air bubbles in tubing. • Worn pump tubing. • Solution viscosity changed.	• Recalibrate the pump. • Ensure tubing is submerged and free of air. • Replace pump tubing. • Recalibrate with the current solution.
Pump making unusual noise.	• Worn pump head rollers. • Debris in pump head.	• Inspect and replace pump head. • Clean pump head thoroughly.

7. Specifications

Feature	Detail

Feature	Detail
Model	DP-2
Brand	Jebao
Channels	2
Dosing Volume per Channel	1 - 9999 ml/day
Dosing Frequency per Channel	Up to 24 times/day
Power Input	AC 110V - 240V, 50/60Hz
Material	Plastic, Polypropylene (PP)
Color	Black
Product Dimensions (L x W x H)	10" x 6" x 3" (25.4 cm x 15.24 cm x 7.62 cm)
Item Weight	1.83 Pounds (0.83 kg)
Maximum Flow Rate	6.9 Milliliters Per Minute
Specific Uses	Indoor aquarium dosing

8. Warranty and Support

8.1 Warranty Information

This Jebao Jecod DP-2 Dosing 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, accident, modification, or unauthorized repair. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact your retailer or the manufacturer's customer service department. Contact information can typically be found on the product packaging or the manufacturer's official website.