

## Jebao DP-3

# Jebao DP-3 Programmable Auto Dosing Pump User Manual

Model: DP-3

## 1. INTRODUCTION AND OVERVIEW

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The Jebao DP-3 is an advanced yet user-friendly automatic dosing pump designed for precise liquid dispensing in aquatic environments. Featuring three independent dosing heads, this pump allows users to maintain stable tank parameters by programming up to 24 dosing times per day for each channel. It eliminates the need for manual daily supplementation, making it ideal for both large and small increment dosing requirements.

## 2. SAFETY INFORMATION

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Please read and understand all safety instructions before operating the Jebao DP-3 Dosing Pump. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply is disconnected before performing any maintenance or setup.
- Do not immerse the pump unit in water. This product is designed for indoor use only.
- Keep the power adapter and electrical connections dry.
- Use only the provided AC adapter.
- Keep out of reach of children.
- Inspect the power cord and tubing regularly for any damage. Replace immediately if damaged.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Jebao DP-3 Dosing Pump Unit
- AC Power Adapter
- (Note: Dosing tubing is not included and must be purchased separately.)

## 4. PRODUCT FEATURES

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- **3 Channel Dosing:** Each channel can dispense 1 to 9999ml per day.

- **Stable Parameters:** Helps maintain consistent tank parameters, reducing the need for manual daily supplementation.
- **Flexible Dosing:** Capable of dosing both large and small increments.
- **Easy Calibration:** Plug and play operation after initial calibration with a 100ml graduated cylinder.
- **Individual Programming:** Each pump can be programmed independently for customized dosing schedules.

## 5. SETUP

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Follow these steps to set up your Jebao DP-3 Dosing Pump:

1. **Placement:** Position the dosing pump in a dry, stable location near your aquarium or reservoir. Ensure it is above the water level to prevent back-siphoning.
2. **Tubing Connection:** Connect appropriate dosing tubing (not included) to each of the three pump heads (P1, P2, P3) and route them to your liquid reservoirs and into your aquarium/sump. Ensure tubing is securely fastened to prevent leaks.
3. **Power Connection:** Connect the AC power adapter to the pump unit and then plug it into a suitable power outlet. The "Power" indicator light will illuminate.
4. **Initial Calibration:**

Before first use, calibrate each pump head for accurate dosing. Use a 100ml graduated cylinder for this process.

- Access the calibration mode (refer to the operating instructions for specific button presses).
- Run each pump channel to dispense 100ml of water into the graduated cylinder.
- Adjust the calibration setting until the dispensed volume is precisely 100ml.
- Repeat for all three channels.

*Note: Some users find that fine-tuning calibration by adjusting the programmed volume slightly (e.g., setting 27ml to achieve 30ml actual output) can improve accuracy for very small doses.*



Figure 1: Front view of the Jebao DP-3 Dosing Pump, showing the three individual pump heads (P1, P2, P3) and power/communication indicator lights. Each pump head has tubing connected for liquid transfer.



Figure 2: Angled view of the Jebao DP-3 Dosing Pump, providing a clearer perspective of its compact design and the tubing connections for each dosing channel.

## 6. OPERATING INSTRUCTIONS

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The Jebao DP-3 features an intuitive controller for programming. Each pump channel can be programmed individually.

### 6.1. Setting the Clock

Ensure the internal clock is set correctly as it dictates the dosing schedule. The clock may gain time over extended periods, requiring occasional adjustment.

### 6.2. Programming Dosing Schedules

Each of the three channels (P1, P2, P3) can be programmed with up to 24 dosing events per day. The volume for each event can range from 1ml to 9999ml.

- **Dosing Frequency:** You can set the pump to dose daily (often indicated by '0' or '1' in the interval setting) or at intervals of up to 30 days.
- **Volume per Dose:** Specify the exact volume (in milliliters) for each scheduled dose.
- **Time of Dose:** Set the precise time for each dosing event.

Refer to the detailed instructions provided with your unit for specific button navigation and programming sequences. The controller allows for easy adjustment of settings for each channel independently.

## 7. MAINTENANCE

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Regular maintenance ensures the longevity and accurate operation of your Jebao DP-3 Dosing Pump.

- **Tubing Inspection:** Periodically check the dosing tubing for kinks, blockages, or signs of wear. Replace tubing as needed.
- **Pump Head Inspection:** The peristaltic pump heads contain rollers and tubing that can wear over time. Inspect them for proper function and replace if they show signs of degradation or if dosing accuracy declines significantly. The unit may come with a spare pump head for replacement.
- **Cleaning:** Keep the exterior of the pump unit clean and dry. Avoid using abrasive cleaners.
- **Recalibration:** It is recommended to recalibrate the pumps periodically, especially if you notice inconsistencies in dosing volume.

## 8. TROUBLESHOOTING

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If you encounter issues with your Jebao DP-3 Dosing Pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump not dispensing liquid.	<ul style="list-style-type: none"><li>◦ Tubing kinked or blocked.</li><li>◦ Pump head worn out or faulty.</li><li>◦ Incorrect programming (e.g., 0ml set, wrong time).</li><li>◦ Reservoir empty.</li></ul>	<ul style="list-style-type: none"><li>◦ Check and clear tubing.</li><li>◦ Inspect pump head; replace if necessary.</li><li>◦ Verify programming settings.</li><li>◦ Refill reservoir.</li></ul>
Inaccurate dosing volume.	<ul style="list-style-type: none"><li>◦ Pump not calibrated correctly.</li><li>◦ Air bubbles in tubing.</li><li>◦ Pump head wear.</li></ul>	<ul style="list-style-type: none"><li>◦ Recalibrate the pump.</li><li>◦ Ensure tubing is free of air.</li><li>◦ Inspect and replace pump head if worn.</li></ul>
Clock gains time.	Internal clock drift.	Periodically reset or adjust the internal clock to maintain accurate scheduling.
Unit unresponsive.	Power issue.	Check power adapter and outlet. Ensure connections are secure.

## 9. SPECIFICATIONS

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<b>Brand</b>	Jebao
<b>Model Name</b>	DP-3
<b>Color</b>	Black
<b>Material</b>	Stainless Steel
<b>Product Dimensions (LxWxH)</b>	10"L x 6"W x 3"H (25.4 x 15.24 x 7.62 cm)
<b>Item Weight</b>	2 Pounds (0.91 kg)
<b>Power Source</b>	AC/DC Adapter
<b>Maximum Flow Rate</b>	6 Milliliters Per Minute
<b>UPC</b>	704119287986
<b>Specific Uses</b>	Indoor, Aquarium Dosing
<b>First Available Date</b>	August 12, 2016

## 10. WARRANTY AND SUPPORT

The Jebao DP-3 Programmable Auto Dosing Pump comes with a **180-day warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For technical support, warranty claims, or inquiries regarding replacement parts (such as pump heads), please contact Jebao customer service. Refer to the contact information provided on the product packaging or the official Jebao website.

*Note: Warranty may be voided by improper installation, misuse, unauthorized modifications, or damage caused by external factors.*