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MICRODOS MP2-B

MICRODOS MP2-B Dosing Device Instruction Manual

Model: MP2-B | Brand: MICRODOS

1. PRODUCT OVERVIEW

The MICRODOS MP2-B is a peristaltic dosing pump designed for precise dispensing of cleaning agents in dishwashers. This model operates without an integrated control system, making it suitable for applications where external control is managed. It features a robust Santoprene hose for chemical resistance and reliable performance.



Figure 1: Front view of the MICRODOS MP2-B Dosing Device. The device is blue with a clear top cover revealing the peristaltic pump mechanism. It has black hose connections on the front and a power cable connection at the bottom.

Key Features:

- **Application:** Specifically designed for dishwasher cleaning agent dispensing.
- **Flow Rate:** Capable of dispensing at 1.5 liters per hour (1.5 l/h).
- **Suction Height:** Maximum suction height of 1.5 meters (1.5m).
- **Hose Connection:** Equipped with a \varnothing 4x6mm hose connection.
- **Hose Material:** Utilizes Santoprene for durability and chemical compatibility.
- **Control:** Operates without an integrated control system.

- **Power Supply:** 230VAC.

2. SAFETY INSTRUCTIONS

WARNING: Installation and maintenance of this device must only be performed by qualified personnel. Failure to comply may result in electric shock, equipment damage, or personal injury.

- Always disconnect power before installation, maintenance, or troubleshooting.
- Ensure all electrical connections comply with local codes and regulations.
- Wear appropriate personal protective equipment (PPE) when handling cleaning agents.
- Do not operate the device if it is damaged or malfunctioning.
- Keep the device away from excessive heat, moisture, and corrosive environments.

3. SETUP AND INSTALLATION

This section provides general guidelines for setting up the MICRODOS MP2-B dosing device. Specific installation details may vary based on your dishwasher system and local regulations. Always refer to the dishwasher manufacturer's instructions and consult with qualified personnel.

3.1 Mounting the Device

1. Choose a secure, dry location near the dishwasher, ensuring easy access for maintenance.
2. Mount the device vertically using appropriate fasteners, ensuring it is level.
3. Allow sufficient space around the device for ventilation and hose routing.

3.2 Hose Connections

1. Connect the suction hose (\varnothing 4x6mm) from the cleaning agent container to the inlet port of the dosing device. Ensure the hose reaches the bottom of the container to prevent air intake.
2. Connect the discharge hose (\varnothing 4x6mm) from the outlet port of the dosing device to the designated cleaning agent inlet on your dishwasher.
3. Secure all hose connections with appropriate clamps to prevent leaks.

3.3 Electrical Connection

1. Ensure the power supply is disconnected before making electrical connections.
2. Connect the device to a 230VAC power source. This model operates without integrated control, so it must be connected to an external control system (e.g., dishwasher's dosing signal) to initiate dispensing.
3. Verify all electrical connections are secure and properly insulated.

4. OPERATION

The MICRODOS MP2-B dosing device is designed for automatic operation when integrated with a compatible dishwasher control system. It does not have manual controls for dosing adjustments on the unit itself.

4.1 Initial Start-up

1. After completing all installation steps and verifying connections, ensure the cleaning agent container has sufficient liquid.
2. Restore power to the device and the dishwasher system.
3. Initiate a dishwasher cycle that triggers the dosing signal. The MP2-B should begin drawing and dispensing the cleaning agent.
4. Observe the flow to ensure proper operation and check for any leaks.

4.2 Dosing Adjustment

Dosing quantity and frequency are typically controlled by the external dishwasher system or a separate dosing controller. Refer to your dishwasher's or external controller's manual for instructions on adjusting cleaning agent dosage.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your MICRODOS MP2-B dosing device. Always disconnect power before performing any maintenance.

5.1 Routine Checks

- **Hoses:** Periodically inspect the suction and discharge hoses for kinks, cracks, or signs of wear. Replace damaged hoses immediately.
- **Connections:** Check all hose and electrical connections for tightness and integrity.
- **Cleaning Agent Level:** Ensure the cleaning agent container has sufficient liquid to prevent the pump from running dry.
- **Pump Head:** Inspect the peristaltic pump head for any visible wear or residue buildup.

5.2 Peristaltic Tube Replacement

The Santoprene peristaltic tube is a wear part and will require periodic replacement depending on usage and the type of cleaning agent. Consult a qualified technician for tube replacement to ensure proper installation and calibration.

6. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Pump not dispensing	No power; Clogged hose; Empty cleaning agent container; Faulty external control signal; Worn peristaltic tube.	Check power supply; Clear hose obstruction; Refill container; Verify control signal; Replace peristaltic tube.
Inconsistent dosing	Air in the line; Partially clogged hose; Worn peristaltic tube; Incorrect external control settings.	Bleed air from system; Clear hose; Replace peristaltic tube; Adjust external control settings.
Leakage	Loose hose connections; Damaged hose; Damaged pump head.	Tighten connections; Replace damaged hose; Consult technician for pump head repair/replacement.

7. TECHNICAL SPECIFICATIONS

Parameter	Value
Manufacturer	MICRODOS
Model / Part Number	MP2-B
Application	Dishwasher cleaning agent dosing
Flow Rate	1.5 l/h
Suction Height	1.5 m
Hose Connection Diameter	ø 4x6mm

Parameter	Value
Hose Material	Santoprene
Control	Without integrated control
Power Supply	230VAC
Batteries Included	No
Batteries Required	No
ASIN	B073Z8Z2DV

8. WARRANTY AND SUPPORT

For warranty information and technical support, please contact your MICRODOS product supplier or authorized service center. Keep your purchase receipt and product model number (MP2-B) readily available when seeking support. This manual is intended for informational purposes only. MICRODOS reserves the right to make changes to product specifications without prior notice.

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