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VELP Scientifica F203A0450

Velp MST Digital Magnetic Stirrer User Manual

Model: F203A0450

1. Introduction

This manual provides essential information for the safe and effective operation, installation, and maintenance of the Velp MST Digital Magnetic Stirrer. Please read this manual thoroughly before using the instrument to ensure proper function and to prevent damage or injury.

2. Safety Information

Observe the following safety precautions to ensure safe operation:

- Always operate the stirrer on a stable, level surface.
- Ensure the power supply matches the instrument's requirements (100-240 VAC, 50-60 Hz).
- Do not immerse the unit in water or other liquids.
- Avoid stirring flammable or explosive materials without proper ventilation and safety measures.
- Disconnect the power cord before cleaning or maintenance.
- Keep hands and loose clothing away from moving parts during operation.

3. Product Overview

The Velp MST Digital Magnetic Stirrer is a compact and quiet laboratory instrument designed for efficient mixing of liquids. Its white technopolymer surface provides excellent visibility for observing samples and color changes.



Figure 1: Velp MST Digital Magnetic Stirrer. This image shows the compact white unit with a blue control knob and a green indicator light on the front panel. The flat white top surface is designed for placing beakers or flasks for stirring.

4. Setup

1. **Unpacking:** Carefully remove the stirrer from its packaging. Inspect the unit for any signs of damage during transit. Report any damage to your supplier immediately.
2. **Placement:** Place the stirrer on a stable, level, and clean laboratory bench or work surface. Ensure there is adequate space around the unit for ventilation and safe operation.
3. **Power Connection:** Connect the power cord to the stirrer's power input and then to a grounded electrical outlet. The unit is designed to operate with 100-240 VAC, 50-60 Hz power supplies.

5. Operating Instructions

1. **Power On:** Once connected to power, the unit is ready for operation. The green indicator light on the front panel will illuminate when the unit is active.
2. **Place Vessel:** Place the stirring vessel (e.g., beaker, flask) containing the liquid and a magnetic stir bar onto the center of the stirrer's top plate.
3. **Adjust Stirring Speed:** Rotate the blue control knob on the front panel to adjust the stirring speed. The speed can be set from 0 to 1100 RPM. Start with a low speed and gradually increase it to avoid splashing.

4. **Timer Function (if applicable):** This model features a timer function from 1 to 900 minutes. Refer to the specific digital interface instructions for setting the desired stirring duration.
5. **Power Off:** To stop stirring, turn the control knob to the '0' position. Disconnect the power cord from the outlet when the unit is not in use for extended periods.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your magnetic stirrer.

- **Cleaning:** Disconnect the unit from the power supply before cleaning. Wipe the exterior surfaces, especially the technopolymer top plate, with a soft, damp cloth and a mild detergent. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the power cord for any signs of damage. Ensure the unit is free from dust and debris, especially around ventilation areas.
- **Storage:** Store the stirrer in a clean, dry environment when not in use.

7. Troubleshooting

If you encounter issues with your Velp MST Digital Magnetic Stirrer, refer to the following common problems and solutions:

- **Unit does not power on:**
  - Check if the power cord is securely connected to both the stirrer and the electrical outlet.
  - Verify that the electrical outlet is functional.
- **Stir bar does not spin or spins erratically:**
  - Ensure the stir bar is centered on the top plate and is appropriate for the vessel size and liquid viscosity.
  - Check if the stirring speed is set above '0'.
  - Verify that the maximum stirring volume (5 liters) is not exceeded.

If the problem persists, contact VELP Scientifica customer support for assistance.

8. Specifications

Parameter	Value
Model Number	F203A0450
Brand	VELP Scientifica
Width	12 cm (4.75 in)
Length	14.5 cm (5.75 in)
Height	5 cm (5.75 in)
Max Stirring Volume	5 liters
Speed Range	0 - 1100 RPM (High Speed)
Motor Type	Brushless
Power VAC	100 - 240 VAC
Power Hz	50/60 Hz

Parameter	Value
Timer	1 to 900 minutes
Top Plate Material	Technopolymer
Origin	Made in Italy

9. Warranty and Support

The Velp MST Digital Magnetic Stirrer is manufactured by VELP Scientifica. For warranty information, technical support, or service inquiries, please contact your local distributor or VELP Scientifica directly. Please have your model number (F203A0450) available when contacting support.
For further information, you may visit the VELP Scientifica Store.

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