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› Remi 2 MLH Stirrers with Hotplate User Manual

Remi 2MLH

Remi 2 MLH Stirrers with Hotplate User Manual

Model: 2MLH

1. INTRODUCTION

The Remi 2 MLH Stirrer with Hotplate is a compact magnetic stirrer designed for laboratory applications requiring precise stirring and heating. It features a stainless steel top housing and a Permanent Magnet DC (PMDC) motor, ensuring stable speed control even with varying viscosity or volume. This model is suitable for stirring applications up to 2 liters and includes an integrated hotplate for temperature control.

This manual provides essential information for the safe installation, operation, and maintenance of your Remi 2 MLH Stirrer with Hotplate. Please read it thoroughly before using the device.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure the unit is placed on a stable, level, and heat-resistant surface.
- Connect the unit to a properly grounded power outlet with the correct voltage.
- Do not operate the stirrer in environments with explosive or flammable materials.
- Avoid touching the hotplate surface during and immediately after operation, as it can remain hot for an extended period. Use appropriate personal protective equipment (PPE), such as heat-resistant gloves.
- Do not immerse the unit in water or other liquids.
- Always disconnect the power cord before cleaning or performing maintenance.
- Use only compatible stirring bars (magnetic stir paddles) with the unit.
- Keep the work area clear and free from obstructions.
- Do not operate the unit if it is damaged or malfunctioning. Contact qualified service personnel.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged:

- Remi 2 MLH Stirrer with Hotplate unit
- Power Cord

- Stirring Paddle (PTFE coated, Q-19A, 9 x 35 mm)
- User Manual (this document)

If any items are missing or damaged, contact your supplier immediately.

4. SETUP

1. **Unpacking:** Carefully remove the stirrer from its packaging. Retain the packaging for future transport or storage.
2. **Placement:** Place the unit on a stable, level, and non-flammable surface in a well-ventilated area. Ensure there is adequate space around the unit for air circulation.
3. **Power Connection:** Connect the power cord to the stirrer's power inlet and then to a grounded electrical outlet. Ensure the voltage matches the unit's requirements.
4. **Initial Inspection:** Before first use, inspect the unit for any visible damage.



Figure 1: Remi 2 MLH Stirrer with Hotplate in operation, showing a beaker with liquid being stirred on the hotplate surface.

5. OPERATING INSTRUCTIONS

The Remi 2 MLH Stirrer with Hotplate features separate controls for stirring speed and heating.

5.1. Stirring Operation

1. Place a beaker or flask containing the liquid to be stirred on the center of the hotplate surface.
2. Carefully drop the magnetic stirring paddle (Q-19A, 9 x 35 mm) into the liquid.
3. Turn the stirrer's power switch to the 'ON' position.
4. Rotate the speed control knob clockwise to gradually increase the stirring speed. The digital display will show the current RPM. Adjust the speed until the desired vortex is achieved without splashing. The maximum stirring speed is approximately 1200 rpm.
5. To stop stirring, turn the speed control knob counter-clockwise to its minimum setting, then turn off the power switch.

5.2. Heating Operation

Caution: The hotplate surface can reach high temperatures. Always use caution and appropriate PPE.

1. Ensure the beaker or flask is heat-resistant and suitable for the desired temperature.

2. Turn the hotplate's power switch to the 'ON' position.
3. Rotate the temperature control knob to set the desired heating level. The hotplate will begin to heat up.
4. Monitor the temperature of the liquid using an external thermometer, if precise temperature control is required.
5. To stop heating, turn the temperature control knob to its minimum setting, then turn off the hotplate power switch. Allow the hotplate to cool down completely before touching or moving the unit.

5.3. Combined Stirring and Heating

Both stirring and heating functions can be operated simultaneously. Follow the steps for both operations, adjusting speed and temperature as required for your application.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Remi 2 MLH Stirrer with Hotplate.

6.1. Cleaning

- Always disconnect the unit from the power supply before cleaning.
- Allow the hotplate surface to cool down completely.
- Wipe the exterior surfaces with a soft, damp cloth. For stubborn stains, a mild detergent can be used.
- Do not use abrasive cleaners, solvents, or immerse the unit in water.
- Ensure all surfaces are dry before reconnecting to power.

6.2. Storage

When not in use for extended periods, store the stirrer in a clean, dry, and dust-free environment. Keep it away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

- **Unit does not power on:**
 - Check if the power cord is securely connected to both the unit and the power outlet.
 - Verify that the power outlet is functional.
 - Ensure the power switch on the unit is in the 'ON' position.
- **Stirring paddle does not rotate or rotates erratically:**
 - Ensure the stirring paddle is centered on the hotplate and within the magnetic field.
 - Check if the liquid viscosity is too high for the selected speed. Reduce viscosity or increase speed gradually.
 - Verify that the stirring paddle is not damaged or worn.
 - Ensure the beaker is placed directly on the hotplate surface.
- **Hotplate not heating:**
 - Ensure the hotplate power switch is 'ON'.
 - Check the temperature control knob setting.

- Allow sufficient time for the hotplate to reach temperature.

8. SPECIFICATIONS

Detailed technical specifications for the Remi 2 MLH Stirrer with Hotplate.

Feature	Specification
Brand	Remi
Model Number	2MLH
Product Type	Stirrer with Hotplate
Max. Stirring Quantity (Water)	2 Litres
Stirring Paddle (PTFE coated)	Q-19A (9 x 35 mm)
Power (Heating)	300 W
External Dimensions (W x D x H)	200 x 225 x 185 mm
Max. Stirring Speed	Up to 1200 rpm
Manufacturer	Remi Lab World
Country of Origin	India
Date First Available	23 February 2016

Technical Specifications					
Models	Stirring Capacity	Heating Capacity	External Dimensions	Stirring Paddle (PTFE Coated)	
	Ltrs	Watts	(W x D x H) mm	Model	x Length
Stirrers without Hotplate					
MS 500	500 ml	–	105 x 135 x 70	Q-18A	7 x 15 mm
Stirrers without Hotplate (with Digital Speed Indicator)					
1 ML	1	–	150 x 220 x 150	Q-19	9 x 25 mm
2 ML	2	–	150 x 220 x 150	Q-19A	9 x 35 mm
5 ML	5	–	180 x 220 x 150	Q-20A	13 x 50 mm
10 ML DX	10	–	250 x 250 x 205	Q-20A	13 x 50 mm
Stirrers with Hotplate (with Digital Speed Indicator)					
1 MLH	1	150	200 x 225 x 185	Q-19	9 x 25 mm
2 MLH	2	300	200 x 225 x 185	Q-19A	9 x 35 mm
5 MLH	5	500	200 x 225 x 185	Q-20A	13 x 50 mm

Figure 2: Technical Specifications table for various Remi stirrer models, including the 2 MLH.

9. WARRANTY AND SUPPORT

Remi products are manufactured under strict quality control standards. For warranty information, please refer to the warranty card included with your product or contact your local Remi distributor. In case of technical issues or service requirements, please contact Remi customer support or your authorized service center. Please have your model number (2MLH) and purchase date available when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Why did my Remi 2MLH stirrer stop working and display an 'S-60' error code after heating a reaction to 150°C?

Based on the behavior of your Remi 2MLH Stirrer with Hotplate, the "S-60" code likely indicates a motor-related fault or a safety cutoff triggered by the high-temperature environment (150°C). While the provided manual does...

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