VELP Scientifica F20500162

VELP Scientifica F20500162 Hot Plate Stirrer User Manual

Model: F20500162

1. Introduction

This manual provides essential information for the safe and effective operation of the VELP Scientifica F20500162 Hot Plate Stirrer. This device is designed for heating and stirring liquids in various laboratory and industrial applications. Please read this manual thoroughly before using the instrument.



This image shows the Velp F20500162 Hot Plate Stirrer. It features a round aluminum top plate, an elevated control panel, and a compact design suitable for laboratory use.

2. Safety Information

Always observe the following safety precautions to prevent injury and damage to the instrument.

- **Electrical Safety:** Ensure the unit is connected to a properly grounded power outlet (230 VAC, 50/60 Hz). Do not operate with damaged power cords.
- **Heat Safety:** The top plate can reach temperatures up to 698°F (370°C). Always use appropriate personal protective equipment (PPE), such as heat-resistant gloves. Allow the unit to cool completely before handling or cleaning.
- **Chemical Resistance:** The aluminum top plate has a protective coating for chemical resistance. However, avoid spilling corrosive chemicals directly onto the control panel.
- **Spill Management:** The elevated control panel and dedicated run-off groove are designed to channel spills away from electrical components. In case of a spill, immediately disconnect power and clean the unit carefully after it has cooled.
- **Placement:** Place the stirrer on a stable, level, and heat-resistant surface, away from flammable materials.
- **Ventilation:** Ensure adequate ventilation around the unit during operation.

3. Setup

1. **Unpacking:** Carefully remove the hot plate stirrer from its packaging. Inspect the unit for any visible damage. Report any damage to your supplier immediately.
2. **Placement:** Position the unit on a clean, stable, and level workbench or laboratory surface. Ensure there is sufficient space around the unit for air circulation.
3. **Power Connection:** Connect the power cord to the instrument and then to a grounded 230 VAC, 50/60 Hz power outlet.
4. **Stir Bar Placement:** Place the appropriate magnetic stir bar into the vessel containing the liquid to be stirred. Ensure the vessel is centered on the hot plate.

4. Operating Instructions

4.1 Power On/Off

Locate the power switch on the unit. Flip the switch to the 'ON' position to power on the hot plate stirrer. Flip to 'OFF' to power down.

4.2 Temperature Control

1. Place the vessel containing the sample on the center of the hot plate.
2. Use the temperature control knob to set the desired heating temperature. The unit will begin to heat the top plate.
3. Monitor the temperature as needed. The maximum achievable temperature is 698°F (370°C).

4.3 Stirring Control

1. Ensure a magnetic stir bar is inside the vessel and the vessel is centered on the hot plate.
2. Use the stirring speed control knob to adjust the desired stirring speed. Start with a low speed and gradually increase to avoid splashing.
3. Observe the stir bar to ensure it is rotating smoothly and creating a vortex in the liquid.

5. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your hot plate stirrer.

- **Cleaning:** Always disconnect the unit from power and allow it to cool completely before cleaning. Wipe the

aluminum top plate and exterior surfaces with a damp cloth and mild detergent. Do not use abrasive cleaners or solvents that could damage the protective coating.

- **Inspection:** Periodically inspect the power cord for any signs of damage. Check the top plate for scratches or corrosion.
- **Storage:** When not in use, store the unit in a clean, dry environment, protected from dust and extreme temperatures.

6. Troubleshooting

If you encounter issues with your hot plate stirrer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	No power supply; power cord disconnected; faulty outlet	Check power cord connection; ensure outlet is functional; verify power switch is ON.
Hot plate not heating	Temperature control set too low; internal fault	Increase temperature setting; if problem persists, contact support.
Stirring is inconsistent or not working	Stir bar too large/small; vessel not centered; stirring speed too low; internal fault	Ensure correct stir bar size; center vessel; increase stirring speed; if problem persists, contact support.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact customer support.

7. Specifications

- **Model Number:** F20500162
- **Top Plate Material:** Aluminum
- **Maximum Temperature:** 698°F (370°C)
- **Power Requirements:** 230 VAC, 50/60 Hz
- **Height:** 11.43 cm (4.5 inches)
- **Length:** 27.94 cm (11 inches)
- **Width:** 16.51 cm (6.5 inches)
- **Approximate Package Dimensions:** 30.48 x 22.86 x 17.15 cm (12 x 9 x 6.75 inches)
- **Approximate Package Weight:** 3.31 kg (7.3 lbs)

8. Warranty and Support

This VELP Scientifica F20500162 Hot Plate Stirrer is covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included with your product for specific terms and conditions.
For technical assistance, spare parts, or warranty claims, please contact your local VELP Scientifica distributor or visit the official VELP Scientifica website for support contact information.

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