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VELP Scientifica F20540162

VELP Scientifica F20540162 Aluminum Hot Plate Stirrer User Manual

Model: F20540162

1. Introduction

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of the VELP Scientifica F20540162 Aluminum Hot Plate Stirrer. This instrument is designed for laboratory use, offering uniform heat distribution and precise stirring capabilities. Please read this manual thoroughly before using the device.



Image 1.1: The VELP Scientifica F20540162 Aluminum Hot Plate Stirrer. This image displays the complete unit, featuring the white base, blue control knobs for speed and temperature, a green power switch, and the circular aluminum heating plate on top.

2. Safety Information

Always observe standard laboratory safety procedures when operating this equipment.

- Ensure the unit is placed on a stable, level, and heat-resistant surface.
- Do not operate the stirrer with damaged power cords or if the unit shows signs of damage.
- Avoid direct contact with the hot plate during and after operation, as it can remain hot for an extended period. Use appropriate personal protective equipment (PPE).
- Do not immerse the unit in water or other liquids.
- Ensure proper ventilation in the work area.
- Disconnect the power supply before cleaning or maintenance.

3. Setup

1. **Unpacking:** Carefully remove the hot plate stirrer from its packaging. Inspect for any shipping damage.
2. **Placement:** Position the unit on a stable, flat, and non-flammable laboratory bench. Ensure adequate clearance around the unit for ventilation. The elevated front panel and dedicated run-off groove are designed to protect against leakages, but good placement practices are still essential.
3. **Power Connection:** Connect the power cord to the unit and then to a grounded 115V, 60Hz electrical outlet.
4. **Initial Inspection:** Verify that the aluminum alloy heating plate is clean and free from obstructions. The protective coating ensures uniform heat distribution and resistance to chemicals.

4. Operating Instructions

The VELP Scientifica F20540162 is equipped with a user-friendly control panel, separated from the hot plate for enhanced safety and durability.

1. **Power On:** Flip the green power switch located on the control panel to the 'ON' position.
2. **Stirring Function:**
    - Place a suitable stirring bar into your vessel containing the liquid to be stirred.
    - Place the vessel centrally on the aluminum heating plate.
    - Adjust the left blue knob (stirring speed control) to achieve the desired stirring rate. The electronic speed regulation allows for speeds up to 1500 rpm. The unit maintains constant speed even when the viscosity of the liquid changes.
    - The maximum stirring volume for water (H2O) is up to 15 liters.
3. **Heating Function:**
    - Adjust the right blue knob (heating control) to set the desired temperature for the hot plate.
    - Monitor the temperature of your sample using an external thermometer if precise temperature control is critical.
4. **Power Off:** Once operation is complete, turn both the stirring and heating knobs to their minimum settings, then flip the green power switch to the 'OFF' position. Allow the hot plate to cool down completely before handling.

5. Maintenance

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

- **Cleaning:** Disconnect the unit from the power supply. Allow the hot plate to cool completely. Wipe the aluminum heating plate and the instrument's exterior with a soft, damp cloth. For stubborn stains, use a mild detergent. The protective coating on the plate offers excellent resistance to chemicals, but avoid abrasive cleaners.
- **Spill Management:** In case of spills, immediately disconnect the power. Once cooled, clean the spill thoroughly. The elevated front panel and run-off groove are designed to contain minor spills, but prompt cleaning is crucial.
- **Inspection:** Periodically inspect the power cord for any signs of damage. Check the heating plate for scratches or wear on the protective coating.
- **Storage:** When not in use, store the unit in a clean, dry environment away from direct sunlight and extreme temperatures.

6. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; power cord damaged; power switch off.	Check power connection; inspect power cord; ensure power switch is 'ON'.
Stirring function not working.	Stirring knob at minimum; stirring bar not present or stuck; motor fault.	Increase stirring speed; ensure stirring bar is free; contact support if motor fault is suspected.
Heating function not working.	Heating knob at minimum; heating element fault.	Increase heating temperature; contact support if heating element fault is suspected.
Inconsistent stirring speed.	Extremely high viscosity liquid; stirring bar not centered.	Ensure liquid viscosity is within operational limits; re-center stirring bar.

If the problem persists after attempting these solutions, please contact VELP Scientifica customer support.

7. Specifications

Feature	Detail
Model Number	F20540162 (Internal Model: 1198F46EA)
Brand	VELP Scientifica
Stirring Volume (H2O)	Up to 15 L
Speed Regulation	Electronic, up to 1500 rpm
Speed Stability	Constant even when viscosity changes
Heating Plate Material	Aluminum Alloy with protective coating
Power Supply	115V, 60Hz
Package Dimensions	1 x 1 x 1 inches
Item Weight	7.05 Pounds
Manufacturer	VELP Scientific, Inc
Country of Origin	Italy

8. Warranty and Support

For warranty information and technical support, please contact VELP Scientifica directly. Refer to your purchase documentation for specific warranty terms and conditions.
Manufacturer: VELP Scientific, Inc.
For further assistance, visit the official VELP Scientifica website or contact their customer service department.

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