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VELP Scientifica F201A0150

VELP Scientifica F201A0150 PW Overhead Stirrer Instruction Manual

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the VELP Scientifica F201A0150 PW Overhead Stirrer. Please read this manual thoroughly before using the instrument to ensure proper functionality and to prevent potential hazards.

Safety Information

- Always operate the stirrer on a stable, level surface.
- Ensure the stirring shaft is securely fastened before operation.
- Do not exceed the maximum stirring volume or viscosity specified for the instrument.
- Disconnect the power supply before performing any maintenance or cleaning.
- Wear appropriate personal protective equipment (PPE) when handling chemicals or operating the stirrer.

2. Product Overview

The VELP Scientifica F201A0150 PW Overhead Stirrer is designed for efficient mixing of high viscosity liquids. Its robust construction features a technopolymer and epoxy-painted aluminum alloy housing, offering excellent chemical resistance and durability. The unit is lightweight and compact, optimizing laboratory bench space.



Figure 1: VELP F201A0150 PW Overhead Stirrer. This image shows the main unit with its speed control knob, ON/OFF switch, and the chuck for attaching stirring shafts. The stirrer is mounted on a support rod.

Key Features

- **Powerful Motor:** 190W motor designed for continuous operation.
- **Variable Speed Control:** Stirring speed adjustable from 20 to 1200 rpm.
- **High Capacity:** Capable of stirring volumes up to 70 Liters.
- **Durable Construction:** Technopolymer and epoxy-painted aluminum alloy for chemical resistance and light weight.
- **User-Friendly Chuck:** Self-locking chuck accommodates shafts up to 10 mm diameter.
- **Safety System:** Integrated system blocks the stirrer in case of incorrect functioning.

3. Setup

Follow these steps to properly set up your VELP F201A0150 PW Overhead Stirrer:

1. **Mounting the Stirrer:** Securely attach the stirrer to a stable support stand using the provided clamp. Ensure the stirrer is positioned vertically and at an appropriate height above your stirring vessel.
2. **Attaching the Stirring Shaft:**
    - Loosen the self-locking chuck by rotating it counter-clockwise.
    - Insert the stirring shaft into the chuck, ensuring it is centered and extends sufficiently into the vessel.
    - Tighten the chuck by rotating it clockwise until the shaft is firmly secured. Verify the shaft is stable before proceeding.
3. **Power Connection:** Connect the power cord to the stirrer and then to a grounded electrical outlet (80-260V/50-60 Hz).
4. **Positioning the Vessel:** Place the stirring vessel directly beneath the stirring shaft, ensuring the shaft is immersed in the liquid to be stirred without touching the bottom or sides of the vessel.

4. Operating Instructions

Once the stirrer is set up, follow these steps for operation:

1. **Power On:** Flip the ON/OFF switch to the 'ON' position. The stirrer will begin to operate at the previously set speed,

or at a minimum speed if it's the first use.

2. **Adjusting Stirring Speed:** Rotate the speed control knob to adjust the stirring speed. The speed can be set between 20 and 1200 rpm. Start with a low speed and gradually increase it to avoid splashing or cavitation.
3. **Monitoring Operation:** Observe the stirring process to ensure proper mixing and to prevent any issues such as excessive vibration or overheating.
4. **Power Off:** When stirring is complete, gradually reduce the speed to zero using the control knob, then flip the ON/OFF switch to the 'OFF' position.
5. **Removing Stirring Shaft:** After the stirrer has completely stopped and the power is off, carefully loosen the chuck and remove the stirring shaft.

5. Maintenance

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

- **Cleaning:**
  - Always disconnect the power supply before cleaning.
  - Wipe the exterior surfaces of the stirrer with a soft, damp cloth. For stubborn stains, a mild detergent can be used.
  - Avoid using abrasive cleaners or solvents that could damage the technopolymer or epoxy-painted surfaces.
  - Ensure no liquids enter the internal components of the stirrer.
- **Inspection:** Periodically inspect the power cord for any signs of damage. Check the chuck for wear and ensure it securely holds the stirring shafts.
- **Storage:** When not in use, store the stirrer in a clean, dry environment away from direct sunlight and extreme temperatures.

6. Troubleshooting

This section addresses common issues you might encounter with your overhead stirrer.

Problem	Possible Cause	Solution
Stirrer does not turn on.	No power supply; ON/OFF switch is off; internal safety system activated.	Check power cord connection and outlet. Ensure switch is ON. If safety system activated, power cycle the unit and ensure correct operation.
Stirring shaft is loose or wobbles.	Chuck not tightened sufficiently; shaft not inserted correctly.	Ensure the self-locking chuck is fully tightened. Re-insert the shaft, ensuring it is centered and secured.
Inconsistent stirring speed.	Overload; power fluctuation; motor issue.	Reduce stirring load or viscosity. Check power supply stability. If problem persists, contact technical support.
Unusual noise or vibration.	Improperly mounted stirrer; bent stirring shaft; motor issue.	Verify stirrer is securely mounted. Inspect stirring shaft for damage. If noise persists, discontinue use and contact support.

7. Specifications

Technical specifications for the VELP Scientifica F201A0150 PW Overhead Stirrer:

Parameter	Value
Model Number	F201A0150
Power	190W
Stirring Speed Range	20 - 1200 rpm
Maximum Stirring Volume	70 Liters
Chuck Diameter Capacity	Up to 10 mm
Input Voltage/Frequency	80-260V / 50-60 Hz
Dimensions (W x H x D)	Approximately 3.1" x 9" x 7.7"
Weight	Approximately 6.4 Pounds
Country of Origin	Italy

8. Warranty and Support

VELP Scientifica products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official VELP Scientifica website.
For technical assistance, spare parts, or service inquiries, please contact your local VELP Scientifica distributor or VELP Scientifica customer support directly. When contacting support, please have your model number (F201A0150) and serial number ready.
You can find more information and contact details on theVELP Scientifica Store on Amazon.

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