VELP Scientifica F105A0117

VELP F105A0117 FP4 Portable Flocculator User Manual

Model: F105A0117 | Brand: VELP Scientifica

1. Introduction

The VELP FP4 Portable Flocculator is designed for precise and reproducible stirring in laboratory and field applications. It features a robust metallic frame with epoxy painting for enhanced protection against chemical and mechanical corrosion. The unit is equipped with four stirring places, each with adjustable stainless steel stirring rods, ensuring stable operation with its anti-skid base. Rotation speed is electronically controlled by a microprocessor-powered gear motor, allowing for consistent and accurate flocculation testing.

2. Key Features

- Multiple stirrers with reproducible stirring speeds for standardized analysis conditions.
- Portable design with four dedicated stirring places.
- Versatile power options: can be powered by a battery or a car cigarette lighter (accessories not included).
- Wide power supply compatibility: 100 - 240 V / 50-60 Hz.
- Electronic speed control with selectable speeds: 20, 40, 50, 100, and 200 rpm.
- Durable epoxy-painted metal structure for chemical and mechanical resistance.
- Stainless steel stirring rods with self-blocking chuck for height adjustment.
- Anti-skid base for enhanced stability during operation.

3. Setup Instructions

1. **Unpacking:** Carefully remove the FP4 Flocculator from its packaging. Inspect for any signs of damage during transit. Retain packaging materials for future transport or storage.
2. **Placement:** Place the unit on a stable, level, and vibration-free surface. Ensure adequate clearance around the unit for ventilation and access.
3. **Power Connection:** Connect the provided power adapter to the unit's power input and then to a suitable electrical outlet (100-240V / 50-60 Hz). Ensure the power switch on the unit is in the "OFF" position before connecting.
4. **Beaker Placement:** Position up to four standard laboratory beakers (not included) on the anti-skid base. Ensure they are centered beneath the stirring rods.

5. **Stirring Rod Adjustment:** Loosen the self-blocking chucks on each stirring rod. Adjust the height of each stirring rod so that the stirring paddle is positioned correctly within the beaker, typically a few centimeters from the bottom. Tighten the chucks securely to prevent slippage during operation.



Figure 1: VELP FP4 Portable Flocculator in operation with beakers. The image displays the main unit, control knobs for time and stirrer RPM, and four stirring positions with beakers containing blue liquid.

4. Operating Instructions

1. **Prepare Samples:** Fill your beakers with the solutions to be flocculated. Place them securely on the unit's base.
2. **Power On:** Flip the main power switch (labeled "ON/OFF") to the "ON" position. The unit's indicator light may illuminate.
3. **Set Stirring Speed:** Use the "Stirrer rpm" knob to select the desired rotation speed. Available speeds are 20, 40, 50, 100, and 200 rpm. Rotate the knob until the indicator aligns with the desired speed setting.
4. **Set Stirring Time:** Use the "Time Min" knob to set the desired duration for the stirring process. The available time settings are typically in minutes, as indicated on the knob.

5. **Start Operation:** Once speed and time are set, the stirring process will begin automatically or by pressing a start button if available (refer to specific model controls if different from image). The stirring rods will rotate at the selected speed for the set duration.
6. **Monitor Process:** Observe the flocculation process. Adjust settings if necessary, though consistent results are best achieved by maintaining standard parameters.
7. **End of Operation:** The unit will stop stirring automatically once the set time has elapsed. Alternatively, you can manually stop the operation by flipping the main power switch to "OFF".
8. **Remove Samples:** Carefully remove the beakers from the unit after the stirring has ceased.

5. Maintenance and Care

- **Cleaning:** Regularly wipe down the exterior of the unit with a soft, damp cloth. For stubborn stains, use a mild detergent solution. Avoid abrasive cleaners or solvents that could damage the epoxy paint or control panel.
- **Stirring Rods:** Clean the stainless steel stirring rods after each use to prevent residue buildup. They can be removed for thorough cleaning if necessary. Ensure they are dry before re-inserting.
- **Inspection:** Periodically inspect the power cord for any signs of damage. Check the stirring rods and chucks for wear or looseness.
- **Storage:** When not in use for extended periods, store the flocculator in a clean, dry environment, away from direct sunlight and extreme temperatures.
- **No User Serviceable Parts:** Do not attempt to open the unit or perform internal repairs. Refer all servicing to qualified personnel.

6. Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	Power cord not properly connected; Power outlet not active; Unit switch is OFF.	Ensure power cord is securely plugged into the unit and a live outlet. Check the power switch is in the "ON" position. Test the outlet with another device.
Stirring rods are not rotating or rotating inconsistently.	Incorrect speed setting; Obstruction in beaker; Loose stirring rod.	Verify the "Stirrer rpm" knob is set to a desired speed. Check beakers for any obstructions. Ensure stirring rods are securely tightened in their chucks.
Unusual noise during operation.	Unit not level; Internal mechanical issue.	Ensure the unit is placed on a level surface. If noise persists, discontinue use and contact VELP Scientifica support.
Stirring rods slip or fall.	Chucks not tightened sufficiently.	Ensure the self-blocking chucks are tightened firmly after adjusting the rod height.

7. Technical Specifications

Model Number: F105A0117

Power Supply: 100 - 240 V / 50-60 Hz

Stirring Positions: 4

Speed Control: Electronic, selectable speeds (20, 40, 50, 100, 200 rpm)

Structure: Epoxy Painted Metal

Stirring Rods: Stainless Steel, adjustable height with self-blocking chuck

Dimensions (Package): 15.8 x 15.8 x 14.2 inches (approx.)

Weight (Package): 12.8 Pounds (approx.)

Manufacturer: Thomas Scientific (as per product data)

Date First Available: September 9, 2014

8. Warranty and Support

For warranty information, technical support, or service inquiries, please contact VELP Scientifica directly or your authorized distributor. Please have your model number (F105A0117) and purchase date available when contacting support.
For more information, visit the official VELP Scientifica website or refer to the documentation provided with your purchase.

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