VELP Scientifica F105A0112

VELP Scientifica FC6S 6-Position Flocculator User Manual

Model: F105A0112

1. Introduction

The VELP Scientifica FC6S 6-Position Flocculator, Model F105A0112, is a laboratory instrument designed for testing the efficiency of flocculation or precipitation reagents on a small scale. This unit allows for precise control over stirring speed and time, making it an essential tool for water treatment, chemical analysis, and environmental studies. Its robust design and individual stirring controls ensure reliable and reproducible results.
Key features include:

- Individual stirring controls for each position.
- ASTM D2035 compliant method.
- Single motor drives all positions at a consistent speed.
- Illuminated back panel for enhanced visibility of samples.

2. Safety Information

Always observe the following safety precautions when operating the flocculator:

- Ensure the instrument is placed on a stable, level surface.
- Connect the instrument only to a grounded power outlet with the correct voltage (100-240V).
- Do not operate the instrument with damaged power cords or plugs.
- Avoid contact with moving parts (stirring rods) during operation.
- Always disconnect the power before cleaning or performing maintenance.
- Use appropriate personal protective equipment (PPE) such as safety glasses and lab coats when handling chemicals.
- Do not immerse the main unit in water or other liquids.
- Keep the instrument away from excessive heat, direct sunlight, and corrosive environments.

3. Components and Parts

The VELP FC6S Flocculator includes the following main components:

- Main Flocculator Unit with 6 stirring positions.

- Stainless Steel Stirring Rods (6 units).
- Universal AC Adapter.

Note: Standard 2-liter beakers are required for operation and must be ordered separately.



This image displays the Velp FC6S 6-Position Flocculator, a laboratory instrument designed for testing flocculation or precipitation. It features six individual stirring positions, each with a stirring rod immersed in a beaker. The unit has control knobs for each position and an illuminated back panel for enhanced visibility of the samples.

4. Setup

1. **Unpacking:** Carefully remove the flocculator unit and all accessories from the packaging. Inspect for any signs of damage.
2. **Placement:** Place the flocculator on a stable, level, and vibration-free laboratory bench or surface. Ensure there is adequate space around the unit for ventilation and operation.
3. **Power Connection:** Connect the universal AC adapter to the flocculator's power input port. Plug the AC adapter

into a suitable grounded electrical outlet (100-240V, 50/60Hz).

4. **Beaker Placement:** Place up to six 2-liter beakers (not included) onto the illuminated base of the flocculator, aligning them under each stirring position.
5. **Stirring Rod Installation:** Ensure the stainless steel stirring rods are securely attached to their respective shafts. The height of the stirring rods can be adjusted as needed.

5. Operating Instructions

Follow these steps to operate the VELP FC6S Flocculator:

1. **Prepare Samples:** Fill the 2-liter beakers with the samples or solutions to be tested. Place them on the flocculator's base.
2. **Adjust Stirring Rod Height:** Adjust the height of each stirring rod so that it is properly immersed in the sample without touching the bottom or sides of the beaker. This can be done even while the system is operating.
3. **Power On:** Turn on the main power switch located on the unit. The illuminated back panel will light up, enhancing visibility of the samples.
4. **Set Stirring Speed:** For each individual position, use the corresponding control knob to set the desired stirring speed. The available speeds are 10, 15, 30, 45, 60, 90, 120, 150, and 200 RPM. The digital display will show the selected speed.
5. **Start Stirring:** Activate the stirring for each position using its individual control. Stirring rod shafts can be individually stopped and started.
6. **Monitor and Observe:** Allow the flocculator to operate for the required duration, monitoring the flocculation or precipitation process.
7. **Stop Operation:** Once the test is complete, stop the stirring for each position, then turn off the main power switch.
8. **Remove Samples:** Carefully remove the beakers from the unit.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your flocculator:

- **Cleaning:** After each use, disconnect the power and wipe down the exterior of the unit with a soft, damp cloth. Use a mild detergent if necessary. Do not use abrasive cleaners or solvents.
- **Stirring Rods:** Clean the stainless steel stirring rods thoroughly after each use to prevent cross-contamination and buildup.
- **Inspection:** Periodically inspect the power cord for any signs of damage. Check that all control knobs and switches are functioning correctly.
- **Storage:** When not in use for extended periods, store the flocculator in a clean, dry, and dust-free environment.

7. Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; power cord loose or damaged; main switch off.	Check power outlet; ensure AC adapter is securely connected; turn on main power switch.

Problem	Possible Cause	Solution
Stirring rod not rotating.	Individual stirring control off; stirring rod jammed; motor issue.	Ensure individual stirring control is activated; check for obstructions around the stirring rod; contact technical support if problem persists.
Inconsistent stirring speed.	Incorrect speed setting; mechanical issue.	Verify the speed setting on the digital display; ensure stirring rod is clean and free of debris; contact technical support.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact VELP Scientifica customer support.

8. Specifications

Attribute	Value
Model Number	F105A0112
Product Type	6-Position Flocculator
Stirring Positions	6
Speed Control	Individual for each position
Available Speeds (RPM)	10, 15, 30, 45, 60, 90, 120, 150, 200
Power Supply	100-240V
Dimensions (Package)	40 x 19 x 15 inches
Weight (Package)	43.9 Pounds
Manufacturer	COLE-PARMER (as per Amazon listing)
Country of Origin	Italy

9. Warranty and Support

For information regarding warranty terms, technical support, or spare parts, please refer to the documentation provided with your purchase or contact VELP Scientifica directly through their official website or authorized distributors.

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