VELP Scientifica F202A0280

VELP F202A0280 ZX4 Advanced Infra-Red Vortex Mixer User Manual

Model: F202A0280

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the VELP F202A0280 ZX4 Advanced Infra-Red Vortex Mixer. Please read this manual thoroughly before using the instrument to ensure proper function and to prevent damage or injury.

The VELP ZX4 is an advanced vortex mixer designed for various laboratory applications, from gentle mixing to vigorous vortexing. It features a unique infrared sensor for automatic mixing activation and a robust polymer/zinc alloy construction.

2. Safety Information

Always observe the following safety precautions to prevent personal injury or damage to the instrument:

- Ensure the power supply matches the instrument's requirements (100-240 VAC).
- Do not operate the mixer in hazardous environments or with flammable materials.
- Always place the mixer on a stable, level surface.
- Avoid touching moving parts during operation.
- Disconnect the power cord before cleaning or maintenance.
- Do not immerse the unit in water or other liquids.
- Use only accessories supplied or approved by VELP Scientifica.

3. Package Contents

Verify that all items are present and undamaged upon unpacking:

- VELP F202A0280 ZX4 Advanced Infra-Red Vortex Mixer unit
- Standard pop-off cup for single test tube
- 6-ft (1.8-m) power cord with plug
- User Manual (this document)

If any items are missing or damaged, contact your supplier immediately.



Image 1: VELP F202A0280 ZX4 Advanced Infra-Red Vortex Mixer. This image shows the compact design of the vortex mixer, including the main unit and the standard pop-off cup accessory for test tubes.

4. Setup

1. **Unpacking:** Carefully remove the mixer from its packaging. Retain the packaging for future transport or storage.
2. **Placement:** Place the mixer on a clean, dry, and level laboratory bench. Ensure there is adequate space around the unit for ventilation and operation. The four anti-sliding feet provide enhanced stability.
3. **Power Connection:** Connect the 6-ft (1.8-m) power cord to the power inlet on the back of the unit, then plug the other end into a grounded electrical outlet (100-240 VAC).
4. **Accessory Installation:** Attach the desired mixing accessory (e.g., standard pop-off cup) to the mixing platform. Ensure it is securely fitted.

5. Operating Instructions

The VELP ZX4 offers two primary operating modes: infrared sensor mode and continuous "touch" mode.

5.1. Infrared Sensor Mode

This mode allows for hands-free, automatic mixing activation when a tube is detected.

1. Ensure the mixer is powered on.
2. Select the desired speed using the variable speed control knob (up to 3000 rpm).
3. Hold the test tube or vessel above the infrared sensor area (typically near the mixing platform). The mixer will automatically start when the sensor detects the presence of the tube.
4. Remove the tube to stop mixing. The soft-start feature and controlled ramping ensure smooth operation.

5.2. Continuous "Touch" Mode

This mode provides continuous mixing when pressure is applied to the mixing platform.

1. Ensure the mixer is powered on.
2. Select the desired speed using the variable speed control knob.
3. Gently press the test tube or vessel onto the mixing platform. The mixer will start and continue to operate as long as

pressure is applied.

4. Release pressure to stop mixing.

The variable speed control allows for applications ranging from gentle mixing to vigorous vortexing, accommodating various sample types and volumes.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your VELP ZX4 Vortex Mixer.

- **Cleaning:** Disconnect the power cord before cleaning. The polymer/zinc alloy construction is easy to clean. Wipe the exterior surfaces with a damp cloth and a mild detergent. Do not use abrasive cleaners or solvents. Ensure no liquid enters the unit.
- **Inspection:** Periodically inspect the power cord for any signs of damage. Check the mixing platform and accessories for wear or damage.
- **Storage:** When not in use for extended periods, store the mixer in a clean, dry environment, preferably in its original packaging.

No user-serviceable parts are inside the unit. Refer all servicing to qualified personnel.

7. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, contact VELP Scientifica technical support.

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; faulty power cord; unit malfunction.	Check power cord connection and wall outlet. Try a different outlet. If problem persists, contact support.
Mixer does not start in infrared sensor mode.	Tube not positioned correctly; sensor obstructed; sensor malfunction.	Ensure tube is directly over the sensor. Clean sensor area. If problem persists, try continuous mode or contact support.
Mixer does not start in continuous "touch" mode.	Insufficient pressure applied; platform obstruction; unit malfunction.	Apply firm, consistent pressure. Check for debris under the platform. If problem persists, contact support.
Excessive vibration or noise.	Unstable surface; unbalanced load; internal component issue.	Ensure unit is on a stable, level surface. Balance the sample tube. If noise persists, discontinue use and contact support.

8. Specifications

Parameter	Value
Model Number	F202A0280
Operating Voltage	100-240 VAC
Mixing Speed	Up to 3000 rpm (variable)

Parameter	Value
Activation Method	Infrared sensor or continuous "touch" mode
Construction Material	Polymer/Zinc Alloy
Item Weight	6.5 pounds (approx. 3.19 kg)
Package Dimensions	9.25 x 6.73 x 6.54 inches (23.5 x 17.1 x 16.6 cm)
Manufacturer	Cole-Parmer (as listed on Amazon, Brand: VELP Scientifica)

9. Warranty and Support

For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact VELP Scientifica directly. General support and technical assistance can be obtained through the official VELP Scientifica website or your authorized distributor.

VELP Scientifica Contact Information:

Website: www.velp.com

Customer Service: Refer to the website for regional contact details.

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