VELP Scientifica F202A0270

VELP Scientifica TX4 Digital Vortex Mixer F202A0270 Instruction Manual

1. Introduction

This manual provides essential information for the safe and effective operation, setup, and maintenance of the VELP Scientifica TX4 Digital Vortex Mixer, model F202A0270. The TX4 is designed for precise mixing and vortexing applications in laboratory environments, featuring digital control for speed and time, and an innovative infrared sensor for enhanced user convenience.

2. Safety Information

Always adhere to standard laboratory safety practices when operating this equipment. Ensure the device is placed on a stable, level surface. Do not operate the mixer with damaged power cords or if the unit shows signs of physical damage. Avoid spilling liquids onto the control panel or into the internal components. Disconnect the power supply before cleaning or performing any maintenance. This device is intended for laboratory use only by trained personnel.

3. Package Contents

Verify that all components are present and undamaged upon unpacking:

- VELP Scientifica TX4 Digital Vortex Mixer (1 unit)
- Power Cord (100-240 VAC compatible)
- Instruction Manual

Note: Optional accessories for various vessels are sold separately.

4. Setup

1. **Placement:** Position the TX4 Digital Vortex Mixer on a stable, level, and clean laboratory bench, away from direct sunlight or heat sources. Ensure adequate ventilation around the unit.

2. **Power Connection:** Connect the provided power cord to the power inlet on the rear of the mixer, then plug the other end into a grounded electrical outlet (100-240 VAC).
3. **Initial Inspection:** Before first use, visually inspect the unit for any signs of damage that may have occurred during shipping.

5. Operating Instructions

The TX4 Digital Vortex Mixer offers precise control over mixing parameters for various applications.



Figure 1: The VELP Scientifica TX4 Digital Vortex Mixer. The device is light gray with a dark gray base. On the front panel, there is an 'ON/OFF' switch, a digital display showing 'VELP SCIENTIFICA' and 'v. 6.1.2', and a blue rotary knob labeled 'PUSH'. A black rubber mixing cup is visible on top. The model name 'TX4 Digital IR Vortex Mixer' is also printed on the front.

5.1. Powering On/Off

Use the 'ON/OFF' switch located on the front panel to power the unit on or off.

5.2. Digital Control of Speed and Time

The TX4 features a clear digital display for setting and monitoring both speed and time. The rotary knob allows for precise adjustment of these parameters. Speed can be set up to 3000 rpm, accommodating applications from gentle mixing to vigorous vortexing. The timer can be set for durations up to 999 minutes and 59 seconds (999:59). The unit will automatically shut off once the set time has elapsed.

5.3. Infrared Sensor Operation

The unique infrared sensor allows for hands-free activation, significantly reducing repetitive strain. When a tube or vessel is presented to the sensor, the mixing action will automatically begin. Removing the vessel will stop the mixing.

5.4. Continuous Touch Mode

For applications requiring continuous operation without the infrared sensor, the TX4 can be set to a continuous 'touch' mode. Refer to the on-screen menu or specific button functions for activating this mode.

5.5. Soft-Start Feature

The mixer incorporates a soft-start feature and controlled ramping, ensuring quiet operation and preventing splashing or sudden jolts when starting the mixing process.

6. Maintenance

The TX4 Digital Vortex Mixer is constructed from polymer and zinc alloy, making it easy to clean and resistant to many common laboratory chemicals.

- **Cleaning:** Disconnect the unit from the power supply before cleaning. Wipe the exterior surfaces with a damp cloth and a mild detergent. Avoid abrasive cleaners or solvents that could damage the finish. Ensure no liquid enters the internal components.
- **Storage:** When not in use, store the mixer in a clean, dry environment, away from extreme temperatures.

7. Troubleshooting

If you encounter issues with your TX4 Digital Vortex Mixer, consider the following:

- **Unit does not power on:** Ensure the power cord is securely connected to both the unit and a functional power outlet. Check the 'ON/OFF' switch position.
- **Mixing does not start:** In infrared sensor mode, ensure the vessel is correctly positioned to activate the sensor. In continuous mode, verify the settings on the digital display.
- **Unusual noise or vibration:** Ensure the unit is on a stable, level surface. Check that the mixing cup or accessory is properly seated.

For persistent issues, contact VELP Scientifica customer support.

8. Specifications

Feature	Specification
Model Number	F202A0270
Power (VAC)	100 to 240

Feature	Specification
Speed Range	Up to 3000 rpm
Timer Range	Up to 999:59 minutes
Package Dimensions	9.25 L x 6.5 H x 6.5 W (inches)
Package Weight	7.05 pounds
Construction Material	Polymer/Zinc Alloy

9. Warranty and Support

For warranty information, technical support, or to inquire about optional accessories, please contact VELP Scientifica directly or visit their official website. Keep your purchase receipt for warranty claims.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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