

Micro Horizontal Mixer

VNQ11



Instruction for Use

Version 26.2

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For Research Use Only. Not for use in diagnostic procedures.

01/Product Description

Micro Horizontal Mixer is designed for efficient mixing of liquids in microplates. Under appropriate speed and operating time, effective mixing can be achieved without sealing the microplate, while minimizing sample splashing. Its compact design, stable operation, and low noise make it suitable for routine laboratory applications.

02/Specifications

Component	VNQ11-01
Micro Horizontal Mixer	1

Parameter	Value
Motor Type	Brushless motor
Orbit Diameter	4 mm
Speed Range	100 - 1,200 rpm
Speed Increment	▲/▼: 50 rpm (press and hold); 10 rpm (single press)
Time Range	1 min - 8 h
Plate Capacity	96-well microplate × 1
Power	20 w
Power Supply	AC100 - 240 V DC12 V
Size	155 × 150 × 90 mm
Net Weight	2.4 kg

03/Storage

Store at 5 ~ 40°C and ship at room temperature.

04/Package Contents

1. One Micro Horizontal Mixer.



2. One microplate holder.



3. Three power cords (US, EU, UK).

05/Notes

1. Place the instrument on a stable, level work surface free from vibration.
Recommended environmental conditions:
 - a. Indoor use only.
 - b. Altitude: $\leq 2,000$ m.
 - c. Temperature range: $5 \sim 40^{\circ}\text{C}$.
 - d. Humidity range: 20% - 80%.
 - e. Keep away from excessive vibration and strong airflow.
 - f. Keep away from environments containing conductive dust, explosive gases, or corrosive gases.
 - g. Maintain at least 10 cm of clearance on all sides of the instrument during operation.
2. Ensure that the microplate holder is properly seated and securely installed before operation.
3. Do not remove the microplate until the instrument has come to a complete stop. Failure to do so may result in personal injury.
4. Do not fill the microplate beyond 70% of the well capacity, as splashing may occur during operation.
5. The recommended speed and mixing time are validated for preparing and mixing quantitative reagents in microplates. For other reagents, seal the microplate before mixing and optimize the shaking speed as needed.
6. Do not touch the power plug with wet hands.
7. Do not connect or disconnect the power plug while the instrument is powered on.
8. Disconnect the power supply before cleaning or maintaining the instrument.
9. Do not modify the instrument, as it may result in malfunction or permanent damage. Use only accessories and replacement parts specified by the manufacturer. The use of unauthorized accessories or components that do not meet the manufacturer's specifications may result in instrument damage or personal injury.

06/Operation Guide

06-1/Setup

Unpack the instrument and place it on a stable, level work surface. Install the microplate holder onto the instrument before use.

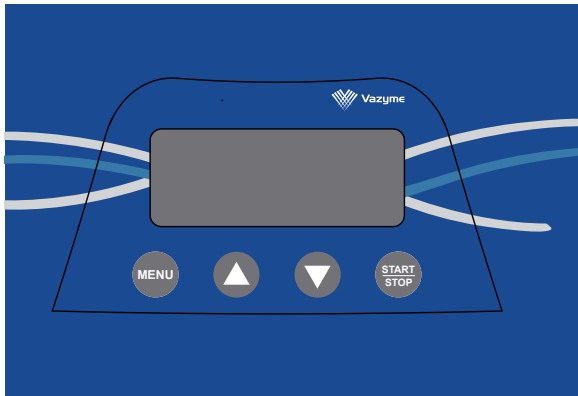
06-2/Power Connection

Connect the instrument to an AC power supply (100 - 240 V).

06-3/Microplate Loading

Place the microplate into the installed holder. Ensure that it is properly seated, fits securely within the holder, and is level without movement.

06-4/Control Panel



Display window: The window displays the set speed and remaining operating time.

1. Press **MENU** to switch between speed and timer settings. Use the up and down arrow buttons to increase or decrease the selected value.
Speed range: 100 - 1,200 rpm; Timer range: 1 min - 8 h.
2. Press **START STOP** to begin operation. The display window shows the remaining operating time. The shaker stops automatically when the timer reaches zero. Press **START STOP** at any time to stop the current run.

06-5/Operation

1. Place the microplate in the holder and press **START STOP** to begin mixing. The shaker accelerates gradually to the set speed.
2. When the countdown ends, the instrument emits an audible signal. Wait until the instrument has completely stopped before removing the microplate.
3. Leave the instrument connected to the power supply if additional runs are required.
4. Disconnect the power from the power supply after all experiments are completed.

07/Troubleshooting

Error	Possible Cause	Solution
No response after power on	① Power supply disconnected.	Ensure that the power cord is properly connected.
	② No power from the outlet.	Verify that the power outlet is functioning properly.
Excessive vibration or abnormal noise	① Instrument not placed on a stable, level work surface.	Place the instrument on a stable, level work surface.
	② Microplate not properly seated in the holder.	Use a compatible microplate and ensure that it is properly seated in the holder.
Low or unstable operating speed	Motor failure or other internal malfunction.	Contact support@vazyme.com for assistant.



Vazyme Biotech Co.,Ltd.

www.vazyme.com

400-600-9335 (China) +86 400-168-5000 (Global)

support@vazyme.com