

TGyrate Vortex Basic

User's Manual



Catalog number	Product Name
OSE-VX-01	TGyrate Vortex Basic

Product Introduction

The TGyrate Vortex Basic is a small mixer that uses eccentric rotation to create a vortex of the liquid in test tubes and other containers, so as to fully mix the samples. The instrument can be used to mix samples in test tubes, centrifuge tubes, flasks, and other containers. The DC brushless motor is selected, which produces little noise and has a long service life. Additionally, the motor is directly driven, allowing for a strong vortex and rapid mixing of liquid samples. The standard top is made of highly resistant rubber material. The simple silicone foot pad ensures the stability of the instrument when it runs at high speed. It is easy to operate. With touch and continuous working modes, it can meet different experimental requirements.








Warranty

The TGyrate Vortex Basic has a warranty period of 12 months. Damage caused by improper operation or unauthorized modification with spare parts or accessories not provided by TIANGEN is not covered by the warranty. The warranty does not cover the damage caused by normal spoilage, radioactive contamination or improper cleaning.

Technical Parameters

Main body of TGyrate Vortex Basic	1 set
Standard top	1 pc
Power adapter	1 pc
User manual	1 copy
Warranty card	1 copy
Certificate of qualification	1 copy

Optional Accessories

No.	Product Name	Catalog Number	Product Picture
1	Standard Top	OSE-VX-B001	
2	Universal Top	OSE-VX-B002	
3	Microtiter Plate	OSE-VX-B003	
4	Erlenmeyer Flask	OSE-VX-B004	
5	1.5/2.0ml Tube Top	OSE-VX-B005	
6	15ml Tube Top	OSE-VX-B006	
7	Flat Top	OSE-VX-B007	

Technical Parameters

Working mode	Touch/continuous mode
Vibration mode	Circumferential
Amplitude	6 mm
Range of rotational speed	0-3000 rpm
Regulation mode of rotational speed	Knob scale speed regulation
Power adapter	DC12 V, 3 A, 50/60 Hz
Power Adaptor: Input Power	30 W
Power Adaptor: Output Power	15 W
Instrument dimensions (W × H × D)	107 mm × 146 mm × 166 mm
Net weight	3 kg
Protection level	IP21

Schematic Diagram of Instrument



Instrument Installation

Carefully unpack the outer package of TGyrate Vortex Basic according to the following steps:

1. Remove the filling material from the top.
2. Remove the instrument from the foam shell, and place it on a horizontal, stable experimental bench.
3. Remove the external protective material from the instrument.

Operation Guide

1. The instrument should be placed on a horizontal workbench to ensure stable placement of the instrument during use.
2. Connect the instrument to power supply, and the adapter provides 12V DC voltage.
3. To select the working mode, adjust the switch, with "ON" controlling the continuous working mode and "TOUCH" being used for the touch working mode. To adjust the rotational speed, turn the rotational speed adjustment knob.
4. When in touch working mode, press the bottom of the centrifuge tube against the concave part of the standard top, run the instrument to mix the samples; when in the continuous working mode, put the bottom of the centrifuge tube on the concave part of the standard top and mix the samples evenly.

Maintenance and Service

Before maintenance and service, please make sure that the instrument is powered off and the power line is disconnected. Customers are advised to wipe the surface of the instrument with 75% ethanol or a non-corrosive cleaning detergent with a pH of 7. Please ensure that all parts of the instrument are completely dried before running the instrument, and be careful to not immerse or wet the instrument with liquid.

Precautions for use

1. This instrument is mainly used for mixing samples in the laboratory and should be operated by professionals;
2. The instrument should be placed on a horizontal and stable workbench;
3. When using optional accessories, the rotational speed should be less than 500rpm, otherwise the instrument will swing unsteadily;
4. It is forbidden to vortex flammable and explosive objects, and be sure to avoid corrosive objects and liquids directly contacting the instrument;
5. Please ensure that the container is sealed before use to prevent liquid splashing;
6. Do not block the vent;
7. Please turn off the power when the device will be spare for a long time.