

Classic Vortex Mixer user manual



Please read and follow the user manual operation and safety instructions provided. Please keep this manual for future reference.





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1. Safety notes

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Caution!

- Please carefully read the manual before operating the product, and observe the specifications on safe operation.
 - The product can be operated only by trained staff.
- Ensure that label indicated the correct voltage before connecting the instrument to power supply.
- Do not cover the instrument and do not splash water on the components.
- When working wear personal safety guards to avoid the risk of splashing and evaporation of liquids, release of toxic or combustible gases.
- Ensure that the product and its accessories are free of damage before turning on the power.
- For the purpose of safety, please use the standard accessories listed in the chapter "Accessories" in accordance with the manual. Accessories must be firmly connected to the product in a way that avoids separations.
- While using accessories for multi-tube mixing, please apply the minimum required pressure.
- While using multiple sample tubes with any accessory, place the sample tubes in the center position and distribute the sample tubes evenly on the accessory.
- Ensure that the mains power is disconnected before assembly, disassembly, cleaning or maintenance.



2. Product overview

2.1 Scope of application

It is mainly used for oscillation and mixing of test tubes and small vials containing small volumes of sample.

2.2 Technical parameters

Item	Parameter
Power supply [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	12
Operation mode	Circular
Revolving diameter [mm]	4.8
Motor rating output[W]	10
Rotational speed [rpm]	3000
Operating mode	Inching
External dimension [mm]	133×133×80
Dimension of packing box [mm]	250×185×130
Weight [kg]	0.6
Allowable environment temperature [°C]	5-40
Permissible Ambient Temperature	≤80%RH
Protection class	IP21





2.3 Components



Fig. 2.3.1

Fig. 2.3.2

Installation process of oscillator head component:





Oscillator head installation process description:

- 1. Place the bearing washer into the oscillator head, as shown in Fig. 2.3.3-2.3.4
- 2. Mount the oscillator fitted with washer on the bearing, as shown in Fig.

2.3.4-2.3.5

3. Stick the rim of the oscillator head into the connecting sleeve, as shown in Fig.

2.3.6.

Name	Description	
Power indicator	The power indicator is ON when the instrument is	
	powered ON.	





3. Operating instructions

3.1 Open-package inspection

Open-package inspection aims to confirm the completeness of associated parts.

The packing list is given below:

Name	Qty.
Main unit	1
Power adapter	1
Operation manual	1

If you find any damage on the package, please specify the damage on receipt.

Please contact manufacturer/supplier for any technical support. If you find any

internal damage after opening the package, please contact local supplier or

manufacturer.



Caution:

If there is any apparent damage to the system, please do not plug it into the main power line.

3.2 Operation

- Place the instrument on a stable and non-slip surface.
- Ensure good working environment free of hazardous and flammable



substances.

- Ensure that the label indicated the correct voltage before connecting the device to power supply.
- Switch power ON and observe whether the power indicator (LED) is lit.
- The test tube should be pressed into the center of the mixer head accessory as much as possible to allow the mixer to work steadily.
- Release the force applied down on the oscillator to stop the instrument.

If the above operations are normal, the instrument is ready to operate. If there is any problem during above operations, then instrument may be damaged during transportation, please contact manufacturer/supplier for technical support.

4. Cleaning and Maintenance

- Proper maintenance can keep instruments work properly and increase its lifetime.
- Please keep the instrument in dry and clean surface.
- Please do not connect the power supply before the surface dry.
- If the instrument is wet then any solid or liquid particles might have got into the instrument, please disconnect the power supply quickly and contact the



manufacturer/supplier for more advice

- Do not spray cleanser into the instrument when cleaning.
- Unplug the power line before cleaning. Please use the recommended cleansers.
- If the product is not in use for long time, please store it in a dry, clean, and stable and room temperature environment.

Warning!

Before any maintenance or inspection, the power cable must be pulled out of the socket.

Please refer to the product Service Manual for details on machine maintenance.





5. Fault diagnosis

- The instrument adopts the advanced production technology and testing methods. Every manufactured unit of THE MIXER had been tested thoroughly before dispatch, with good reliability.
- The common errors generally occur due to improper operation.
- If there are any errors that cannot be handled, please record the fault phenomenon and notify the local dealer, or contact us directly.
- The common fault phenomena observed in THE MIXER are shown as follows:

Fault phenomenon	Cause Analysis	Solution
No operation observed when the system switched ON	Loose connection of power cable	To inspect whether the power cable is firmly connected
	Damage of internal circuit	Return to depot for repair

Product certification

The construction of this product conforms in accordance to China national and industry standards, ISO9001 standards, and further certified that the product meets applicable standards published by other members of the ISO.



Warranty policy

- All products are supplied with a warranty of 12 Months for Liquid handling range and 24 Months for instruments range from the date of shipment.
- This instrument is warranted to be free from defects in material and workmanship and it must be operated in accordance with our operating guidelines, serviced and maintained on a regular basis in accordance with the terms specified in the relevant user manual.
- Warranty shall not apply to any product or parts which have been damaged due to mishandling or improper installation or abnormal conditions of operation.
- Although great care is used when packaging items for shipment, the company cannot accept liability for transportation of goods from the company and transit damage is not covered by warranty

For claims under the warranty please contact your local supplier. You may also send the instrument directly to manufacturer, enclosing the invoice copy and giving reasons for the claim. Manufacturer will not be liable for freight costs.

