

ELMI

laboratory equipment

Vortex V-3



User's manual

Certificate of approval

Vortex V-3 _____ N _____ has been inspected for technical conditions and meets all necessary regulations for such class of device.

Quality control person _____
Name signature

Date of issue _____

Place for stamp.

Certificate of sale

Organization _____

Address _____

Phone _____

Sales person _____
Name signature

Date of sale _____

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Dear user!

Thank you for purchasing ELMi equipment. The vortex mixer V-3 is a simple and reliable device. We ask you to consider technical requirements of exploitation and maintenance to insure pleasant and continuous usage of the device.

General information

Vortex mixer (further vortex) is designed for mixing components in various types of laboratory test tubes.

Technical specifications

Vortex cap shaking speed, rev/min.	From 50 up to 4000
Shaking type	orbital
Orbital shaking radius, mm	2
Power supply 100 - 240 V, 50 - 60 Hz, through the adapter	12 V, 1500 mA
Power consumption, W	up to 18
Dimensions, mm (diameter x height)	130 x 58
Weight, kg	0.7

Delivery package

Item	Quantity
Vortex.....	1
Power supply adapter 12 V, 1500 mA.....	1
User's manual.....	1
Packaging	1

Controls



Preparation to work

Before turning the machine on carefully examine the power adapter, power supply wire and external look of the machine. In case of external damage do not turn on the machine without permission of specialist.

Modes

- 1) **ON** mode: a constant shaking regime. Set the demanded speed value, vortex will immediately begin working. To stop shaking turn speed regulator counterclockwise until it stops or switch into the OFF mode. Adjusting RPM's is possible during work.
Attention it is recommended to use ON mode not more than 10 minutes!
- 2) **OFF** mode: all functions of the device are disabled.
- 3) **PUSH** mode: set the demand speed value, then press with a test tube on the shakers adapter to turn on the device and hold the pressure on the test tube. To stop shaking lift the test tube. Adjusting RPM's is possible during work.
- 4)

Applied adapters



Universal adapter for test tubes of 0.2ml up to 50ml volume



Multi test tube adapter with 9 places for test tubes of 1.5ml and 2ml volume.

(adapter type and quantity is determined by customer)

In order to change the adapter:

Put the device in to OFF mode. Turn the adapter counterclockwise and twist it off the screw-thread. Screw on the other adapter; don't tighten it too much as when using the device, the adapter tightens automatically.

Safety features

It is prohibited to:

- Plug the machine to a power outlet with configuration different from the power adapters' plug configuration.
- Plug the power adapter into the outlet if the adapter or the device is damaged.

Transportation and storage

To ensure safety during the transportation, transported equipment should be packed in the original manufacturers' packaging. Equipment can be transported by any kind of closed transport so that equipment is tightly fixed and transportation runs accordingly to regulations applied to this way of transport.

Equipment should be stored in original manufacturers packaging in dry room with humidity not more than 80% and temperature from +10°C to 40°C.

It is not recommended to store the equipment more than 36 month.

Warranty statements

- Warranty applies to 24-month period from the date of purchasing.
- Those malfunctions arisen through the fault of producer in the course of this period, are removed free of charge.
- Guaranty is not valid in the following cases:
 - If the serial number label of the manufacturer is damaged.
 - If damages appear as a result of the incorrect operation, transportation or storage.
- These documents are necessary for applying for warranty repair:
 - User manual with serial number of the machine.
 - Officially signed report, describing the reasons and conditions of equipment malfunction.
- Warranty repair could be performed only if the equipment is delivered in the original manufacturers packaging or similar safe packaging.
- If the above warranty requirements are disturbed, repair charges are applied to the consumer.
- For all further questions concerning exploitation and maintenance please contact manufacturer or product vendor.