



NEUATION iSWIX Digital Vortex Mixer User Manual

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NEUATION

iSWIX Digital Vortex Mixer
User Manual



iSWIX PRODUCT
USER MANUAL

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INTRODUCTION

This vortex mixer is designed for laboratory mixing. It assures the highest performance in terms of speed, reliability, precision and safety. The vortex mixer has a variable speed with digital control that allows low RPM start-up for gentle shaking and high speed mixing for vigorous vortexing of samples.

INTENDED USE

This vortex mixer is a general laboratory vortex mixer. It is intended for applications where vortexing of single or multiple tubes is required.

FEATURES

1. Continuous/touch operation
2. Adjustable speed ranging up to 2800 RPM
3. Long life Brushless AC motor with ball bearing
4. Inbuilt counter balance for steady and safe operation
5. Orbital diameter of 4 mm
6. Broad range of Accessories (optional)
7. Robust construction for stable
8. Silent operation
9. Broad range of accessories available 4.

TECHNICAL SPECIFICATIONS

Orbital Diameter	4 mm
Maximum Speed	2800 RPM
Speed Accuracy	± 5%
Maximum Load Capacity	500 gm
Different modes	Continuous & Touch mode
Protection Rating	IP 21
Ambient Temperature	5 – 40°C
Permissible Relative Humidity	180%
Dimensions (W x D x H)	205 x 1385 x 136 mm
Weight	2.8 Kg
Power Sup*	230 VAC, 50 Hz
Power Consumption	70 W
Altitude	Use upto an altitude of 2000 m above MSL
Pollution Degree	2
Environment	For Indoor use only

STANDARD ACCESSORIES

1. Standard cup head (pre-installed), Rubber disk attachment
2. Power cord, Product user manual & warranty card
3. Universal attachments plus microplate, Round disk attachment microtube foam & Flask rubber attachments (optional)

SAFETY PRECAUTIONS

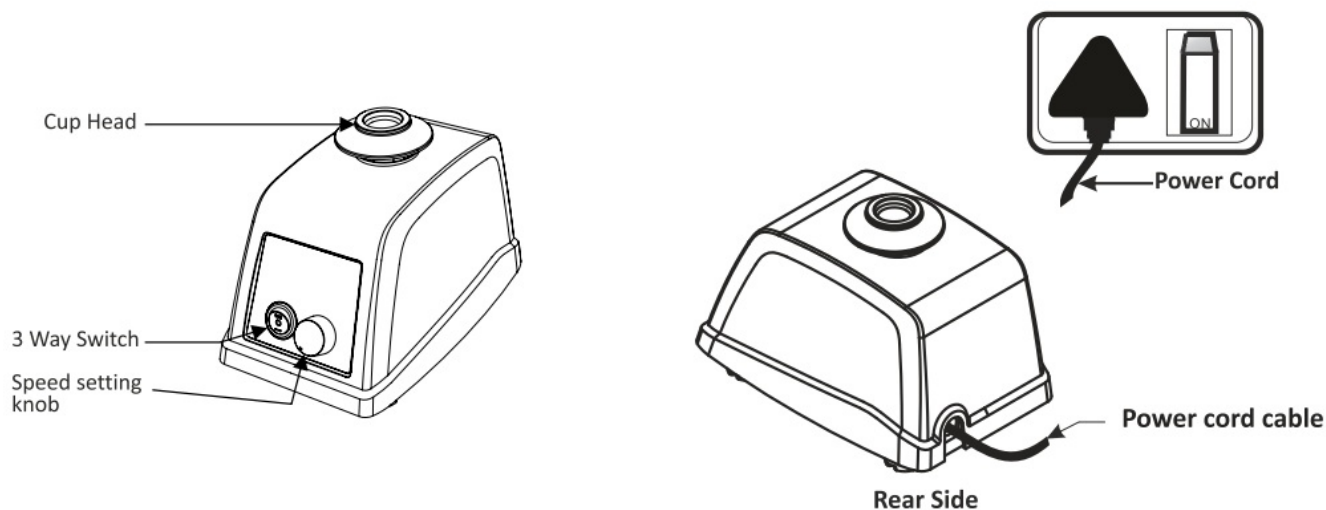


Read all safety & usage information provided in this manual carefully before using the device.

1. Do not use the unit if it shows any sign of electrical or mechanical damage.
2. Do not use the vortex mixer in hazardous atmosphere or with hazardous material for which the unit is not designed.
3. Always use the vortex mixer on a level & stable surface for best performance and maximum safety.
4. Do not lift vortex mixer with the attachments, as every attachment including the cup head are designed to be pulled off for interchanging.
5. Do not rotate or give full rotation to the attachments (cup head, universal attachment, etc) attached to the modified shaft body.
6. Clean the unit with a damp cloth using a mild detergent only. Do not use chemical cleaning agents.
7. If liquid is spilled on the unit, first disconnect unit from the external (main) power supply and then clean the unit with damp cloth.
8. Do not use accessories which are not recommended by the manufacturer, as this may affect performance.

9. The instrument is designed to be used in the laboratory environment.
10. Liquid spillage may harm the unit. Do not fill microtubes, microplates or flasks while they are attached to the vortex mixer.

STANDARD PART USTING

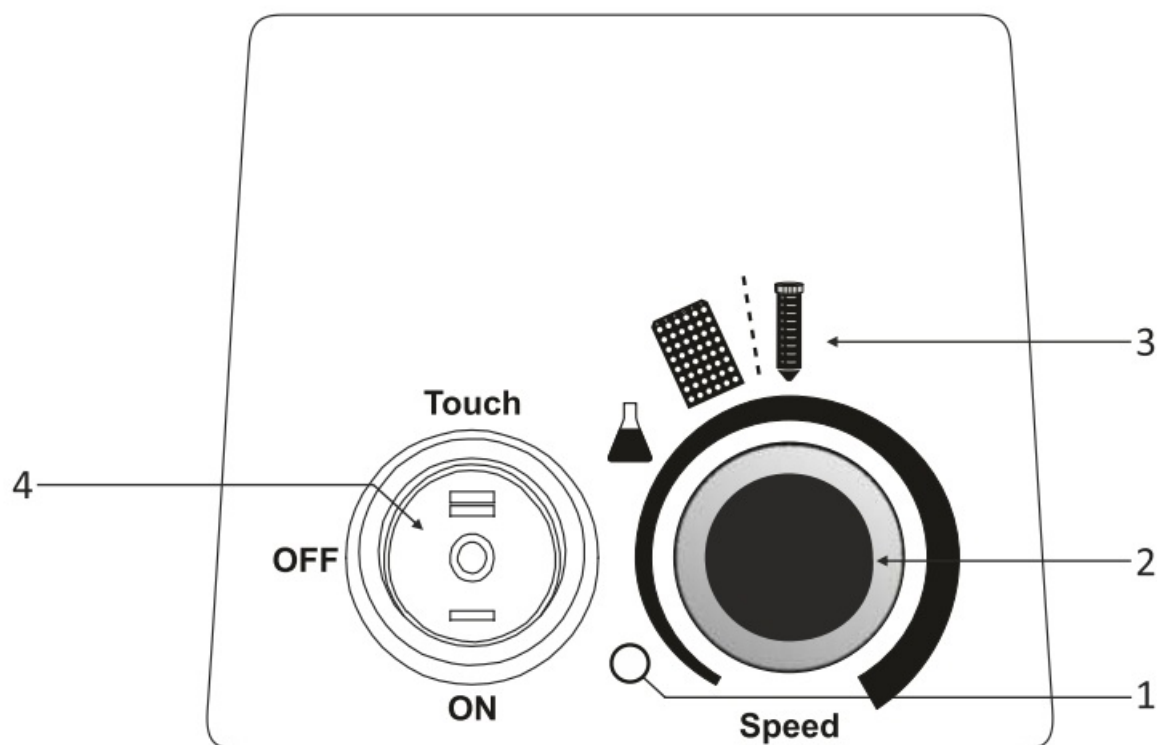


INSTALLATION

Open the box, open the inner packaging and gently take the vortex mixer out of the box. Before the first use ensure that all the packaging is removed and the cup head is firmly tightened before using the product. The user manual and accessories should be kept near the unit for warranty purposes.

Take the unit out and place it on the levelled & stable surface near the grounded electrical outlet. Keep a clearance of 10 cm on all sides of the unit for proper ventilation. Connect one end of the power adaptor pin to the rear side of the unit and another end to main supply. Make sure that the main switch is not switched 'ON' until the adaptor is connected to both the sides.

USER INTERFACE & DISPLAY



No.	Name/Symbol	Function
1	Power LED	Power Led showing the status of vortex action. Glowing – when vortex action is in process, Not Glowing – No Vortex action
2	Speed	Speed setting knob to set different speed. Rotate clockwise to increase & anticlockwise to decrease speed value.
3	Max. Speed Indication for Specific Attachment	Attachments position with reference to speed setting knob for Max. allowed speed indication.
4	3 way switch (Mode selection)	Rocker switch is used to select different mode in vortex mixer. OFF (stand by), Continuous & touch operation mode.

OPTIONAL ATTACHMENTS & THEIR INSTALLATION

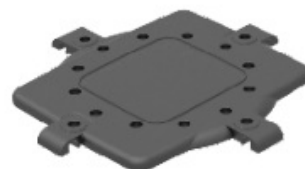
The standard attachment is normally used for vortexing samples in tubes. The vortex mixer can accommodate optional attachments when combined with the optional universal attachment.



Standard attachment



Optional attachment



Universal attachment



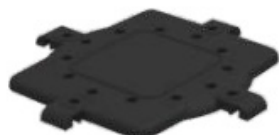
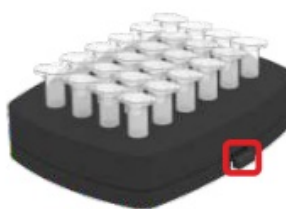
Universal attachment

+



24 Tubes Foam attachment

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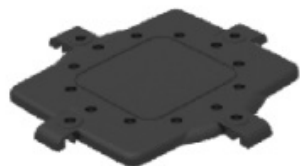
Universal attachment

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Microplate foam attachment

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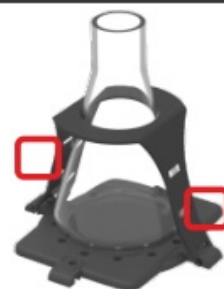
Universal attachment

+









Flexible rubber attachment

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When using optional attachments please follow below mentioned recommendation

Attadunents	Image	Max. FIR	As Satow on the saber
Microtubes Foam Attachment		75%	
MR:Opiate Foam Attachment		75%	
Flask Rubber Attachment		750m1	

OPERATION

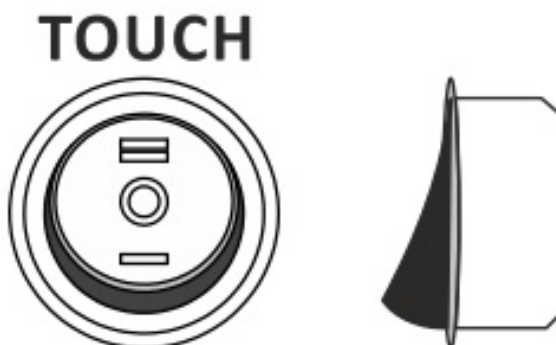
Always connect the plug to the power supply to start the unit. Always set the required speed and time first before doing any mixing operation. Rotate the knob to select and set the speed value. By default, speed will be selected every time the knob rotates.

STANDBY, TOUCH & CONTINUOUS MODE

Placing the 3 way switch in the Standby position It will keep the vortex mixer in an OFF state.



Press the 3 way switch up towards the “Touch” side to enable the Touch mode. In Touch mode, vortex action will start only when the cup head is press.



Press the 3 way switch down towards the “ON” side to enable the Continuous mode. In Continuous mode, the vortex action will start automatically (without pressing cup head) at the set speed and time.



MAINTENANCE & CLEANING

1. Always keep the vortex mixer & its accessories in a safe storage location and clean periodically with moist cloth. After cleaning, ensure that all parts are dry before re-use
2. Ensure that while cleaning the unit is not plugged in.
3. The brushless motor in the vortex mixer requires no routine maintenance. Any required service should be performed by authorized, qualified personnel only. Repairs performed by unauthorized personnel may void the warranty.
4. Do not try to pull the vortex mixer with attached accessories.
5. Do not try to rotate the attachments attached to modify the shaft body.
6. Do not use the vortex mixer & its accessories in direct sunlight or underwater.

WARRANTY STATEMENT

This product is warranted to be free from defects in material and workmanship for a period of two (2) years from date of purchase. Your product will be duly repaired upon prompt notification in compliance with the following conditions:

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in this instruction manual. This warranty does not cover damage caused by accident neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover any incidental or consequential damages, commercial loss or any other damages from the use of this product.

All items returned for service should be set postage prepaid in the original packaging or other suitable carton, added to avoid damage.

This warranty is valid only if the warranty is registered with the supplier within 30 days from the date of purchase.

For your refetere, make a noticed the serial number. date of purchaseand cuppacf here.

Serial No.....

Rochase Date.....

Suppler.....

PRODUCT DISPOSAL

In case the product is to be disposed of the relevant legal regulations are to be observed.

Information on the disposal of electrical and electronic devices in the European Community

The disposal of electrical devices is regulated within the European Community by national regulations based on EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). According to these regulations, any devices supplied after 13.06.05 in the business to business sphere, to which this product is assigned, may no longer be disposed off in municipal or domestic waste. They are marked with the following symbol to indicate this.




As disposal regulations within the EU may vary from country to country, please contact your supplier if necessary.

NEUATION

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Website: www.neuation.com
0204-00-0000-02-003-83

Documents / Resources

	<p>NEUATION iSWIX Digital Vortex Mixer [pdf] User Manual iSWIX Digital Vortex Mixer, iSWIX, iSWIX Vortex Mixer, Digital Vortex Mixer, Vortex Mixer, Digital Mixer, Mixer</p>
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