

**UNICO®**

L-VM 1000 Vortex Mixer

Operation Manual



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## DESCRIPTION

The LVM1000 variable speed Vortex Mixers feature a 3-position switch allowing you to turn the instrument on/off, set for vortexing when the head is touched, or to be set to continuous "ON" mode. With variable speeds ranging from 0 to 3,000 RPM, you can gently or vigorously mix specimens as desired. Equipped with 3 suction cup feet for stability on the benchtop.

Speed Range	0 – 3,000 RPM (110 V) 0 – 2,700 RPM (220 V)
Speed Control	Speed is controlled by a rheostat, from 0-3,000 RPM
Dimensions	H 6.5" W 5" D 6.9"
Weight	7 lbs.
Electrical	110 Volt, 60 Hz or 220 Volt, 50 Hz (L-TTR1000E)

## UNPACKING

Each Vortex Mixer has been packed with utmost care. Please take a moment to examine the outer and inner cartons for any visual damage. We recommend that you keep all packing material until you have fully examined and tested your new mixer. If you notice any damage, please contact the shipping company or your authorized distributor. Claims for damage that may have occurred during shipping should be made by the receiver with the shipping company within 10 days of receiving the product.

## OPERATION

- Place the vortex mixer on a dry, flat solid benchtop.
- Push the instrument down firmly with both hands to allow the feet to gain suction and stability on the benchtop.
- Make sure the outlet voltage and cord match the voltage of the instrument (check label on the back side); and plug in the instrument into a properly grounded outlet.
- Select the operation setting "ON" for always on, or "Touch" to operate when you touch the head of the instrument.
- Set the "Speed" Rheostat to the desired speed.
- Take your specimen firmly and press it to the head for the desired length of time.

## CAUTION

This instrument incorporates high-speed moving parts. Do not operate this instrument without proper safety precautions and procedures. It is strongly recommended that the user wear impact and splash protecting eyewear, suitable gloves and a lab coat, apron, or suitable protective lab apparel.

Do not leave a Vortex Mixer in the "ON" position unattended. This could cause injury or damage the instrument. Questions about your instrument?

Please contact UNICO at 732-274-1155. You may also reach us by e-mail at [Info@unicosci.com](mailto:Info@unicosci.com)

## CLEANING

Do not use strong solvents on plastic parts. A solution of weak bleach or other disinfectant solution can be used to clean and disinfect the tube pad. Do not immerse the unit in any fluid.

## ELECTRICAL SHOCK HAZARD

Always unplug before attempting to move, or service the unit in any way.

Do not attempt to operate this instrument near water or liquid spill. Unplug the unit before cleaning or repairing. Periodically check the condition of the power cord for cuts or damage. Do not operate with a damaged cord.

## BIOHAZARD

If a specimen breaks, a biological hazard may exist. Unplug the instrument. Clean using approved laboratory procedures. Always wear the proper protective clothing and gloves. Use a suitable disinfectant and dispose of the sample properly. Refer to the guidelines set forth by OSHA, CLIA, etc. Always use protective eyewear when operating.

## WARRANTY

This instrument is warranted against defects in materials and workmanship for a period of one (1) year from the date of shipment to the customer. This warranty is limited to the repair and replacement of parts, which prove to be defective during the warranty period. This warranty is not valid for parts damaged, lost, or which fail because of accident, fire, theft, acts of nature, negligence, or the use of chemicals which have a deleterious effect. This warranty is conditioned upon the manufacturer retaining the option of replacing parts up to and including the entire instrument.

Note This warranty will not extend to any repairs or modifications made to the instrument by some party other than the manufacturer or a party authorized by UNICO. Also, this warranty shall be in effect only upon the notice of the defect to the manufacturer or its authorized distributor, or dealer, within five (5) days after the occurrence of said defect. No other warranty of any kind is made expresses or implied. The warranty described above shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period described above, shall constitute complete fulfillment of all liabilities and responsibilities of the manufacturer to the purchaser with respect to the product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, and strict liability or otherwise. In no event shall the manufacturer be liable, or in any way responsible for any damages or defects in the product that were caused by repairs or attempted repairs performed by anyone other than the manufacturer's dealer or station, nor shall the manufacturer be liable or in any way responsible for any incidental or consequential economic or property damages. Some states do not allow the exclusion of incidental or consequential damage, so the above exclusion may not apply to you.