

# UNICO®

## Vortex Mixer

L-VM4000  
Variable Speed Vortex



### **United Products & Instruments, Inc.**

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**UNICO®** is excited to introduce new Vortex Mixer. Small enough to fit into any lab—big or small, powerful enough to get the job done right the first and every time. This new addition to the UNICO family of laboratory equipment features variable speed up to 3,200RPM, nearly silent touch-on operation and a powerful DC motor mounted inside ergonomically designed ABS body. The synthetic silicon semispherical top designed to work with various size tubes.

## **APPLICATIONS**

These instruments are designed to perform general mixing of liquids while the user is holding the specimen container (Tube/Flask) in their hand.

- Sample Prep: Mix frozen batched samples; prep them for an Analyzer
- Mix Cell Suspensions
- Mix Media
- Mix Injectables
- Enzymatic and RIA Assays

## **SPECIFICATIONS**

Speed Range:	0 – 3,200 RPM (110 V)
Speed Control:	Speed is controlled by a rheostat, from: 0-3,200 RPM
Button/Position:	Touch-on operation
Dimensions:	H: 3" W: 6" D: 8"
Weight:	3 lbs.
Electrical:	110 Volt, 60 Hz.

## **UNPACKING**

Each Vortex Mixer has been packed with utmost care. Please take a moment to examine the carton for any visual damage. We recommend that you keep the packing material until you have fully examined and tested your new mixer. If you note any damage, please contact your authorized distributor.

The standard package includes the following items:

- |                          |   |
|--------------------------|---|
| 1. L-VM4000 vortex mixer | 1 |
| 2. Operation manual      | 1 |

## **OPERATION**

1. Put the vortex mixer on a dry, flat solid bench top.
2. Push the instrument down firmly with both hands to allow the rubber feet to gain suction and stability on the bench top.
3. Pre-set the Speed Rheostat to the desired speed.
4. Grasp your specimen firmly and touch it to the vortex head and mix 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.

Avoid Electrical Shock: Use a properly grounded outlet. Do not operate in, on, or near any spilled liquid. Make sure the place of operation is clean and dry. In the event of a liquid spill, discontinue use immediately and unplug the instrument. Always unplug before attempting to move, or service the unit in any way.

### **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.

### **ELECTRICAL SHOCK HAZARD**

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 express 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.