

## OPERATING INSTRUCTIONS

The VM1 is a single tube Vortex mixer suitable for test tubes up to 28mm diameter.

With the switch in the Auto position the mixer will run continuously. When switched to the Manual position the mixer will operate by applying downward pressure while holding the test tube in the cup.

### TO OPERATE

- ⇒ Set the unit on a flat and level surface.
- ⇒ Connect the power cord to a properly grounded 3 pin socket.
- ⇒ Set the power switch for desired operating mode, Automatic or manual.
- ⇒ For manual operation hold the top of the tube, then with the base of the tube in the mixer's silicone cup, push down to start.
- ⇒ When set for Automatic operation the mixer will run continuously.
- ⇒ The mixing action can be varied using the speed control.
- ⇒ A full vortex will be formed at or near maximum speed.

NOTE – The mixing action can also be varied by holding the tube at an angle.

## SPECIFICATIONS

Power requirements:	240v AC 20 watt
Motor:	AC Shaded pole
Speed control:	Solid state analogue control
Speed range:	200-2400 rpm variable
Drive:	1.5mm off set
Mixing cup:	High grade silicone rubber.
Operating conditions:	Temperature 0° to 45°c Humidity max 80% RH ( non condensing)

### MAINTENANCE

Regular cleaning is the only maintenance required.

### SERVICE

Should the unit fail to operate correctly, any service work should be carried out by a qualified technician.

Unauthorised tampering will invalidate the manufacturer's guarantee

## PRODUCT WARRANTY

Ratek equipment is covered by a 12 month parts and labour warranty effective from the date of purchase.

This warranty covers the repair or replacement of any parts or components found to be defective, subject to the service options listed below.

This warranty excludes any defect resulting from misuse, neglect, accidental damage, improper voltage, or any alteration which affects the performance of the equipment.

- Does not extend to any costs associated with delivery, damage, or loss incurred during transport.
- Is in addition to any Statutory regulations and provisions implied by the Trade Practices Act and any relevant State or Federal Government obligations.

For warranty service the following options are available:

- Contact the supplier from where the equipment was purchased to arrange for service.
- Return the equipment direct to Ratek Instruments, 60 Wadhurst Drive, Boronia, Vic 3155.

Warranty repairs not returned to Ratek can be undertaken by authorised service personnel but are limited to a parts only warranty.

**Note:** Proof of purchase is required for all warranty repairs.



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FOR

VM1 VORTEX MIXER



FOR ADDITIONAL INFORMATION / TECHNICAL SUPPORT

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