

## OPERATING INSTRUCTIONS

The test tube rack size should not exceed the mixers platform size. Tube heights should be similar to ensure proper clamping by the top plate

### Do not over tighten the clamp nut

- ⇒ Set the unit on a flat and level surface.
- ⇒ Connect the power lead to a properly grounded 3 pin outlet.
- ⇒ Place the tube rack on to the platform
- ⇒ Bring the top plate down and clamp in position to provide sufficient support for the rack

### Manual operation

- ⇒ Press mixer power switch to on
- ⇒ Press timer switch to off
- ⇒ Adjust speed control to the desired speed.

### Countdown operation

- ⇒ Press mixer power switch to on.
- ⇒ Press timer switch to on
- ⇒ Press mode switch to normal
- ⇒ Using UP/DOWN keys set the desired run time
- ⇒ Press RUN/STOP key to start the timed run
- ⇒ To cancel the timed run press RUN/STOP

### Pulse mode

- ⇒ Press mixer power switch to on.
- ⇒ Press timer switch to on
- ⇒ Press mode switch to pulse
- ⇒ Press ON/OFF set key to show ON in the display
- ⇒ Using the UP/DOWN keys set the desired run time
- ⇒ Press ON/OFF set key to show OFF in the display
- ⇒ Using the UP/DOWN keys set the desired off time
- ⇒ Press the RUN/STOP key to start the timed run
- ⇒ To cancel the timed run press RUN/STOP

## SPECIFICATIONS

Power requirements:	240v AC 40 watt
Motor:	12 Volt DC
Speed control:	Solid state analogue
Speed:	Variable 750 to 3000 RPM with load
Orbit diameter:	4 MM
Drive type:	Direct drive
Timer:	Digital with a liquid crystal display.
Timer modes:	
countdown	0-99 mins 59 secs
pulse mode	0-99 secs on / off
Platform:	320 x 200 mm
Operating conditions:	Temperature 0° to 45°c
	Humidity max 80% RH ( non condensing).
Overall dimensions:	W325 x D300 x H440
Weight:	17 Kg's

### 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 the 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

**MTV1 Multi tube vortex mixer**



FOR ADDITIONAL INFORMATION / TECHNICAL SUPPORT

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