

## INTRODUCTION

Ratek controllers use a custom program securely contained as firmware in a single microprocessor.

User interface is via front panel mounted key switches and LED display. Program settings are maintained by a non-volatile RAM. System performance is monitored by a “watch dog” that resets the system if power is interrupted.

Separate function switches are provided for independent operation of the mixing and heating, These switches are located under their respective control sections on the front panel. The third switch will control the internal cabinet light.

The mixer can operate continuously for long periods unattended.

Ensure that the load is properly secured and the counterbalance set before starting the mixer.

**Do not run heavy loads at high speed.**

The motor control circuit has a built in safety feature which is designed to protect the drive against abnormal conditions.

If the platform becomes jammed, or an excessive load is detected, drive to the motor will be cut.

To restore normal operation, remove the obstruction or excessive load, turn the power switch off, then on again.

**NOTE:** Incorrect adjustment of the counterbalance can also cause the cut out to operate.

## SPECIFICATIONS

Power requirements:	240 VAC/ 900 Watts
Control type:	Custom digital microprocessor
Temperature control Range:	Ambient + 7°to 75°C
Control stability:	±0.2
Display resolution:	1 °C
Heater type:	Fan assisted spiral wound element.
Mixer control range:	40-400 rpm with Tachometer.
Timer:	0-99 hours/minutes with 3 adjustable presets.
Mixer platform:	700 X 530mm Max weight 15 kg's
Safety features:	Adjustable over temperature alarm. Independent mechanical cut out Motion interrupt drive cut off Door open drive cut off.

\*For Temperature control below ambient + 7°C it is necessary to use an auxiliary cooling unit. (Ratek RC4)

## 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.



## OPERATING INSTRUCTIONS

FOR

## OM25 ORBITAL MIXER/INCUBATOR



FOR ADDITIONAL INFORMATION / TECHNICAL SUPPORT

TEL: 61 3 98872161

FAX: 61 3 98872163

EMAIL: [sales@ratek.com.au](mailto:sales@ratek.com.au)