



## INSTALLATION, OPERATION AND CARE MANUAL

REMEMBER TO COMPLETE THE ONLINE  
WARRANTY REGISTRATION TO  
RECEIVE YOUR FULL TWO YEAR WARRANTY.

### WARRANTY

All Scientific equipment comes with a standard ONE year warranty, The 1 Year Extended Warranty is only valid for customers who have registered their warranty online at [www.scientific.co.za](http://www.scientific.co.za) within the first year after making their purchase.

MANUFACTURED  
IN SOUTH AFRICA





ALL SCIENTIFIC EQUIPMENT COMES WITH A TWO  
YEAR WARRANTY ON COMPONENTS AND  
DEFECTIVE WORKMANSHIP - Ts & Cs APPLY.

### REGISTER ONLINE TODAY

- Register your warranty on-line at [www.scientific.co.za](http://www.scientific.co.za) today and learn how to get the best out of your Scientific product.

### NO WEB ACCESS?

- If you do not have access to the Web, register by completing this form and Email it to the Scientific head office in South Africa. Email: [sales@scientific.co.za](mailto:sales@scientific.co.za)

### ONLY COMPLETE IF YOU DO NOT HAVE WEB ACCESS

Company \_\_\_\_\_

Name \_\_\_\_\_

Surname \_\_\_\_\_

Telephone \_\_\_\_\_

Cellphone \_\_\_\_\_

Email Address \_\_\_\_\_

Country \_\_\_\_\_

Postal address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Scientific products purchased \_\_\_\_\_

Product Code (see box label) \_\_\_\_\_

Serial number (see back of machine) \_\_\_\_\_

### INTENDED USE

- |                                       |  |   |
|---------------------------------------|--|---|
| <input type="checkbox"/> Agriculture  | <input type="checkbox"/> Genetics        | <input type="checkbox"/> Pharmaceutical Physics |
| <input type="checkbox"/> Automotive   | <input type="checkbox"/> Industrial      | <input type="checkbox"/> Power Generation       |
| <input type="checkbox"/> Biochemistry | <input type="checkbox"/> Medical         | <input type="checkbox"/> Special Metals         |
| <input type="checkbox"/> Botony       | <input type="checkbox"/> Microbiology    | <input type="checkbox"/> Sugar                  |
| <input type="checkbox"/> Chemistry    | <input type="checkbox"/> Mining          | <input type="checkbox"/> Water                  |
| <input type="checkbox"/> Cosmetics    | <input type="checkbox"/> Nuclear         | <input type="checkbox"/> Zoology                |
| <input type="checkbox"/> Electronics  | <input type="checkbox"/> Paper/Packaging | <input type="checkbox"/> Other (Specify): _____ |
| <input type="checkbox"/> Food         | <input type="checkbox"/> Petrochemical   |   |



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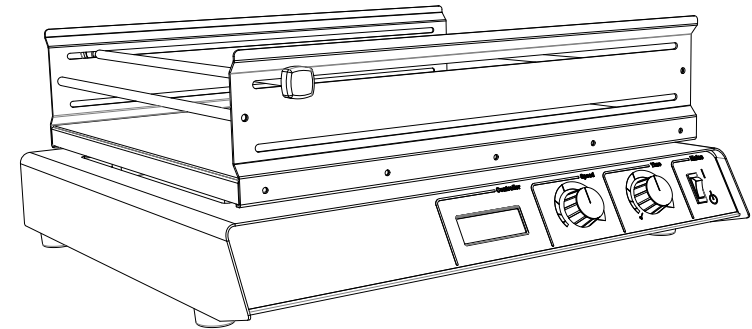
## LIMITED WARRANTY

The manufacturer guarantees that this unit is free from defect in materials and workmanship when it leaves the factory and undertakes to replace or repair the unit if it proves defective in normal use or during servicing for a period of 1(one) year. The date of original installation and is for the benefit of the original purchaser only. The liability under this warranty is limited to repairing the defective unit or any part of the unit provided it is sent carriage paid to an authorized dealer. All other Warranties ,expressed or implied , statutory or otherwise, including without limitations any implied Warranty of Merchantability or fitness for purpose are excluded .The Seller shall in no event be liable for direct,indirect or consequential damages in connection with the products.

This unit is at all times to be used according to the instruction manual and for its normal purpose.

This Warranty is not effective if damage occurs because of accident, carelessness,improper installation,lack of proper set-up,supervision when required or if the equipment is installed or operated in any manner contrary to the installation and operating instructions. In these cases,repairs will be made at a reasonable cost. Work performed by unauthorized personnel or unauthorized service agencies voids this Warranty.

## LINEAR SHAKER



**INSTALLATION OPERATION AND CARE OF  
LINEAR SHAKER  
MODELS: 264**

## UNPACKING

Unpack the product and check for any damage incurred during transit. This should be reported to the responsible carrier, railway or postal authority, and a request for a damage report should be made.



THESE INSTRUCTIONS MUST BE FOLLOWED FOR US TO GUARANTEE OUR FULL SUPPORT OF YOUR CLAIM FOR PROTECTING AGAINST LOSS FROM CONCEALED DAMAGE. THE FORM FOR FILING SUCH A CLAIM WILL BE PROVIDED BY THE CARRIER.

## PRODUCT DESCRIPTION

The units feature two setting knobs and a digital Controller display showing the target rotational speed; actual rotational speed and operational time. Speed and Time control is microprocessor controlled.

The shakers are quiet running and belt driven via a eccentric drive platform. Shaking platforms are supplied with four clamping bars and rubber mat. There is a built in fuse which can be reset via a push button located on the rear of the unit.

Shaking speeds are variable from 10 to 250 rpm. The stroke for the Linear Shaker it is 30mm (Model 264)



**THE 264 LINEAR SHAKER CAN AT HIGHER SPEEDS AND HEAVIER LOADS BECOME UNSTABLE**

## GENERAL INSTALLATION AND OPERATION INFORMATION

- Position the unit on a stable bench.
- Ensure that the unit is at least 100mm - 200mm from the wall and other equipment to ensure that the platform does not come into contact with any object during the shaking cycle.
- Do not overload the platform. Where possible distribute the load evenly.
- Start the unit with the speed setting on a low position to avoid sudden movement and possible spillage.

## ELECTRICAL CONNECTION INFORMATION

MODEL	DESCRIPTION	VOLTS (V/Hz)	POWER (WATTS)	CAPACITY kg	PLATFORM SIZE (mm)
264	LINEAR SHAKER	230/50	40	20	570 x 460

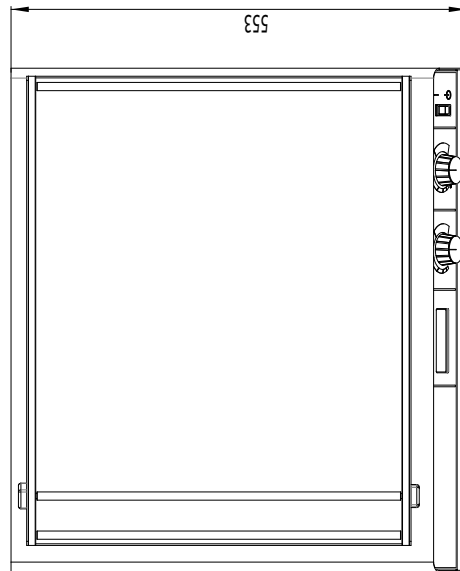
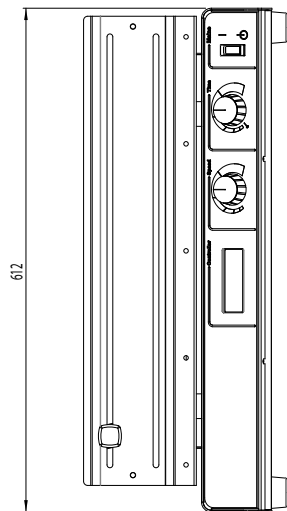
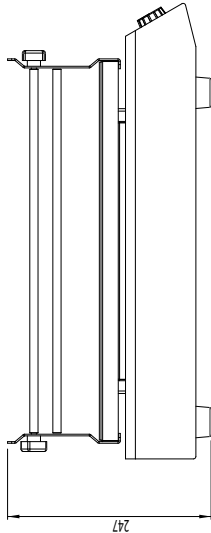


THE CONTROL COMPARTMENT OF THIS UNIT CONTAINS DANGEROUS VOLTAGES. MAINTENANCE AND SERVICING REQUIRING THE REMOVAL OF ANY PANELS OR COVERS SHOULD BE DONE BY QUALIFIED SERVICE PERSONNEL ONLY.

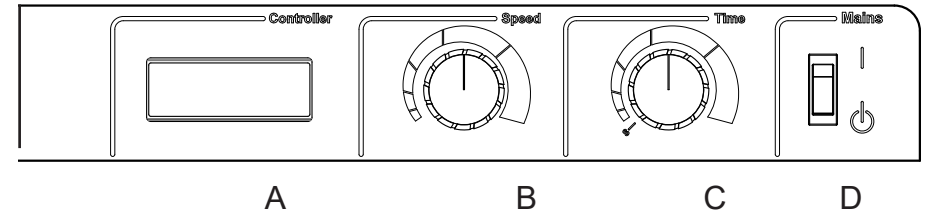


IT IS ESSENTIAL TO MAKE SURE THAT THE INCOMING VOLTAGE IS THE SAME AS THE RATED VOLTAGE OF THE OF THE UNIT AS FOUND ON THE SERIAL PLATE. THE SERIAL PLATE IS LOCATED AT THE REAR OF THE UNIT ADJACENT TO THE INCOMING CABLE ENTRY.

**POSITIONING DIAGRAM  
ORBITAL SHAKER  
MODEL: 264**



**SPECIFIC INSTALLATION AND OPERATING INFORMATION  
MODEL 264      LINEAR PLATFORM SHAKER      20kg**



**CONTROL PANEL**

1. Ensure that the power plug of the unit is plugged into the mains power socket.
2. Place the sample on the platform and secure with clamping bars by loosening the end screws, positioning bars and then re-tightening the end screws.
3. Press the mains switch "D" to the ON position. The switch "D" and Controller display "A" will now illuminate indicating there is power to the unit.
4. Select the cycle time. By **PRESSING** knob "C" and holding for 2 seconds you can alternate between Manual and Automatic modes. In Manual mode the time display will run up showing how long the the unit has been operational.  
In Automatic mode the operational time can be set and the time display will run down to zero, showing how much time is left for the preset cycle. To set time, in Automatic mode **PRESS** knob "C" to alternate between Hours, Minutes and Seconds. Set each individually by turning knob "C" clockwise to increase value or alternatively turn knob counter clockwise to decrease value.
5. Select the rotation speed required by turning knob "B" clockwise to increase or counter clockwise to decrease speed value.
6. START and/or STOP the unit by PRESSING knob "B".

## CLEANING

BEFORE CLEANING THE UNIT, DISCONNECT THE POWER PLUG FROM THE MAINS SOCKET!

- Clean the outside of the unit using a damp cloth with soapy water.
- Under no circumstances should steel wool be used.
- Do not clean with organic solvents.
- Do not submerge in water or subject the unit to water spray.



CLEAN THE STAINLESS STEEL PARTS WITH WATER AND SOAP. AVOID THE USE OF DETERGENTS CONTAINING ABRASIVE SUBSTANCES. ALWAYS RINSE WELL AND DRY CAREFULLY AFTER CLEANING. DO NOT USE PRODUCTS CONTAINING AGGRESSIVE CHEMICALS, ACIDS OR PRODUCTS WITH CHLORINE TO CLEAN THE STAINLESS STEEL EVEN IF DILUTED



## WARNING

### Electric Shock Hazard.

Keep water and other liquids from entering the inside of the equipment. Liquid inside the equipment could cause an electrical shock

Do not spray water or cleaning products. Liquid could contact the electrical components and cause a short circuit or an electrical shock. Do not use equipment if power cord is damaged or has been modified

## SAFETY

**READ ALL INSTRUCTIONS BEFORE USE. FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN INJURY TO YOURSELF AND OTHERS**

1. Use the Shakers on an individual 15A mains outlet only. **DO NOT OVERLOAD THE CIRCUIT.**
2. Ensure that the equipment and the power supply cord does not come into contact with hot surfaces.
3. This unit is only to be used by properly trained laboratory staff.
4. If the supply cord is damaged, it must be replaced with a new cord assembly available from the suppliers agent.
5. Use only earthed outlets matching the serial plate voltage.
6. Have equipment installed by a qualified personnel in accordance with local codes and ordinances.
7. Use equipment in a flat level position.
8. Do not operate if equipment has been damaged or is malfunctioning in any way.
9. These units are designed to run only on alternating current (A.C.) **DO NOT CONNECT TO DIRECT CURRENT (D.C)**

## SAFETY RECOMMENDATIONS

1. When loading and unloading the shaker platforms, turn the speed control to a slow setting and switch off the mains switch.
2. Be aware of the range of movement of the platform and keep objects clear of the shaker before switching on.