

Plate Rotator 30 rpm



AHN myLab TR-03



Instruction Manual

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1. PRODUCT DESCRIPTION

INTRODUCTION

This manual provides important safety information for the Plate Rotator. It should be kept near the equipment for quick & easy reference. The circular motion offers thorough mixing. The plate can be easily removed and replaced for cleaning.

INTENDED USE

This Plate Rotator is ideal for biological samples, particularly blood samples. Also suitable for separating and mixing of powdered and liquid samples.

STANDARD ACCESSORIES

- Power Cord
- 12 x 15 ml + 4 x 50 ml Plate

NOTE: Before using the instrument, please read this user manual carefully. This user manual is intended to assist with the operation and care of the unit only and not its repair. For repair please contact the supplier.

FEATURES

- AC synchronous motor for noiseless operation.
- Comes with 2 optional plates to choose from with capacity up to 12 tubes of 15 ml + 4 tubes of 50 ml or 22 tubes of 15 ml
- Rotating motion provides gentle but effective mixing
- Fixed speed of 30 RPM with an accuracy of +/-2 RPM
- Continuous / infinite mode of operation
- Robust construction with strong metal design
- Maximum operational weight capacity of 1 kg
- Compact bench space saving design
- Protection class of IP 21
- Easy to remove and install plates for replacement and cleaning.

TECHNICAL SPECIFICATIONS

Motor Type	AC Synchronous Motor
Motion Type	Rotatory motion
Capacity	12 x 15 ml + 4 x 50 ml / 22 x 15 ml

1. PRODUCT DESCRIPTION

Number of Plate/s	1
Speed Range	30 RPM
Speed Accuracy	± 2 RPM
Max. Loading Capacity	1 Kg
Timer Range	Continuous mode
Removable Plate	Yes
Permissible Ambient Temp.	5° C to 40 °C
Permissible Relative Moisture	< 80%
Dimensions (W x D x H)	328 x 140 x 145 mm
Weight	2.3 Kg
Input Voltage	110/220V $\overline{\square}$ 0.02A
Power Consumption	3W(110V), 6W(220V)

2. SAFETY PRECAUTIONS

- Never use the instrument in any manner not specified in this manual.
- Equipment used in any manner not specified in this manual or by the manufacturer might result in the lapse of warranty.
- Do not try to stop the plate by blocking / holding it. Do not attempt to remove the plate during operation.
- Never move the instrument while the equipment is under operation.
- Repairs must only be performed by an authorized service technician.
- Only use recommended original spare parts for best results product safety.
- If liquids get spilled on the plate, the instrument must be cleaned carefully and properly before can be used again.
- Prior to mixing, the tubes should be visually inspected for material damage.
- Damaged tubes must not be used as this can result in sample loss and the contamination of the product.
- The maximum capacity of 1 kg must not be exceeded.
- This product must be used for specified applications only. It must not be operated in a hazardous or flammable environment and must not be used to mix explosive

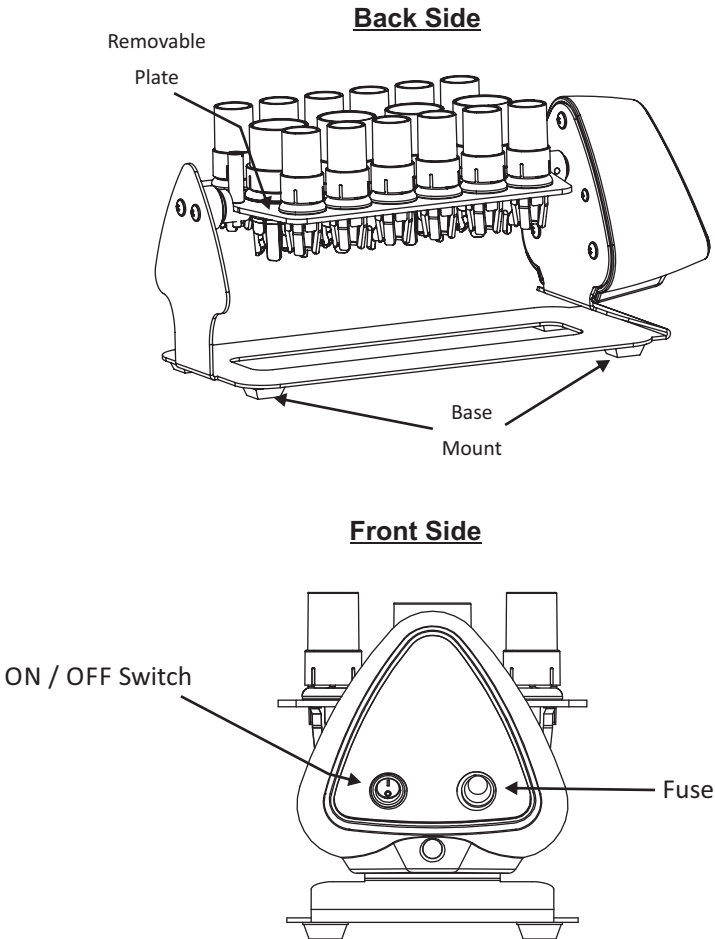


2. SAFETY PRECAUTIONS

or highly reactive substances.

- Do not place the potential hazardous material within the clearance area/envelope.
- Wear your personal protective equipment in accordance with the hazards category of the medium to be processed. There is risk of liquid splashing.
- Place the instrument on a flat, leveled and solid surface. Make sure the feet of the instrument are clean and undamaged.
- Load the tubes safely in the clamps provided on the plate. Always distribute the samples evenly on the device.
- Do not move the instrument while it is operating or connected to the main power supply.
- Ensure that the plate's screws are properly tightened firmly before performing any operation.
- Do not apply any pressure to the plate's knob. It should be used only for locking and unlocking the plate.
- Ensure that only closed tubes are used for mixing.
- Do not lean on the equipment. It may damage the equipment or harm the operator.
- Do not fill tubes near the device. Liquid spillage may harm the device.
- In the event of contamination caused by aggressive agents, the device must be cleaned immediately using a natural cleaning liquid. If any damage is seen, contact the service technician.
- Only process media which will not react dangerously to the extra energy produced by mixing.
- Do not operate the appliance in explosive atmosphere with hazardous substance or under water.

3. STANDARD PARTS LISTING



4. INSTALLATION

Gently remove the upper packaging and take out the Plate Rotator by holding it from the bottom. When this equipment is used for the first time, ensure that all the packaging accessories are removed from the product. Please keep all the packaging in safe storage for at least 2 years for warranty purposes.

LOCATION & MOUNTING

Place the device on a flat and leveled surface and ensure that all four feet stand on the surface firmly. Avoid installing on a slippery surface or surface prone to vibration.

4. INSTALLATION

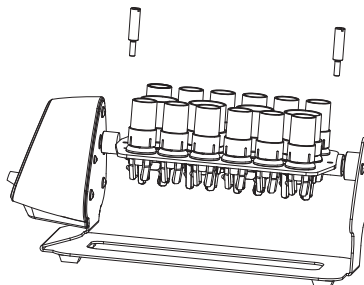
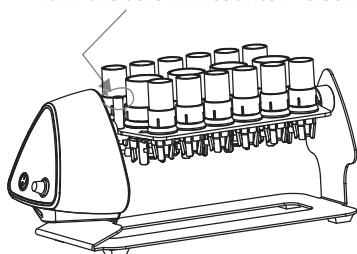
1. Ideal ambient temperature is $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$; avoid placing the device in direct sunlight.
2. Keep clearance off at least 30 cm from all sides to guarantee cooling efficiency.
3. Keep this away from heat or water to avoid sample temperature issues.
4. Do not place the device in such a place that it becomes difficult to operate.
5. Ensure the power switch is OFF while connecting the power cord.

5. REMOVING & INSTALLING PLATE

REMOVING PLATE

Plate can be removed by a simple turn of a knob in counter-clockwise direction. Turn the knob as shown in the image below and then remove plate. The image below shows the process to remove the plate.

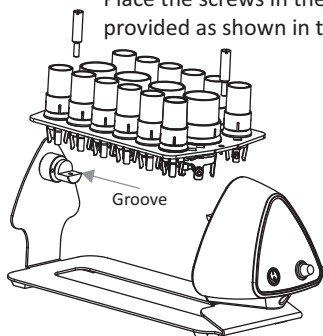
Turn the screw in counter - clockwise direction



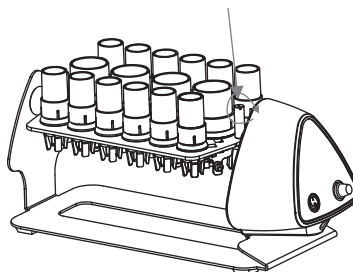
INSTALLING PLATE

Follow the exact reverse process to insert the plate back in position

Place the screws in the groove provided as shown in the figure below



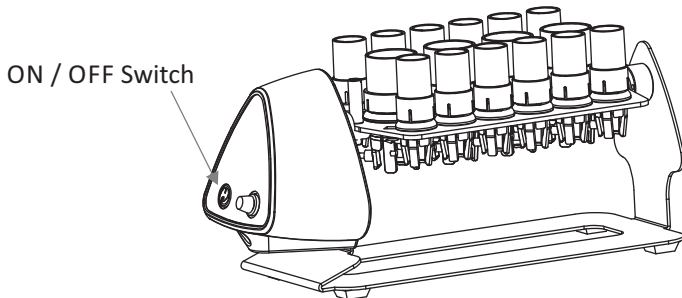
Turn the screw in clockwise direction



6. OPERATION

SWITCH ON THE DEVICE

After connecting the power cord to the side of the device as shown in the picture below, switch ON the main power supply & then switch ON the device from the rear side. Make sure that the tubes are distributed evenly before use.



START / STOP OPERATION

Once all the pre-requisite procedures are done, switch on the main power supply to START the operation. Speed gradually increases from 0 RPM to 30 RPM. This equipment runs on continuous mode (for infinite time).

Note: *There is no provision to change speed in this equipment*

7. WARRANTY STATEMENT

This product is warranted to be free from defects in material and workmanship for a period of two (2) years from date of purchase. Your product will be duly repaired upon prompt notification in compliance with the following conditions :

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in this instruction manual. This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover any incidental or consequential damages, commercial loss or any other damages from the use of this product.

The warranty is invalidated by any non-factory modification, which will immediately terminate all liabilities on us for the products or damages caused by its use. The customer shall be responsible for the product or use of products as well as any supervision required for safety. If requested the products must be returned to

7. WARRANTY STATEMENT

the distributor in well packed and insured manner and all shipping charges must be paid.

Note: *Some states do not allow limitation on the length of implied warranties or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights. This warranty is given expressly in lieu of all other warranties, expressed or implied.*

The purchaser agrees that there is no warranty of merchantability or of fitness for any intended purpose and there are no other remedies or warranties, implied, which extend beyond the description on the face of the agreement. This warranty is only applicable to the original purchaser.

Product received without proper authorization will not be processed for warranty or service. All items returned for service should be sent with postage prepaid in the original packaging or other suitable packaging, padded to avoid damage. We will not be responsible for damage incurred by improper packaging.

Note: *This warranty is valid only if the warranty is registered with the supplier within 30 days from the date of purchase.*

For you reference, make a note of serial number, date of purchase and supplier here.	
Serial No.:	Purchase Date:
Supplier:	

8. PRODUCT DISPOSAL



In case the product is to be disposed of, the relevant legal regulations are to be observed.

Information on the disposal of electrical and electronic devices in the European Community

The disposal of electrical devices is regulated within the European Community by national regulations based on EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). According to these regulations, any devices supplied after 13.06.05 in the business to business sphere, to which this product is assigned, may no longer be disposed off in municipal or domestic waste. They are marked with the following symbol to indicate this.

As disposal regulations within the EU may vary from country to country, please contact your supplier if necessary.



AHN Biotechnologie GmbH
Uthleber Weg 14
D-99734 Nordhausen
Germany

Phone: +49(0)3631/65242-0
Fax: +49(0)3631/65242-90

E-Mail: info@cappahn.com
www.ahn-bio.de

