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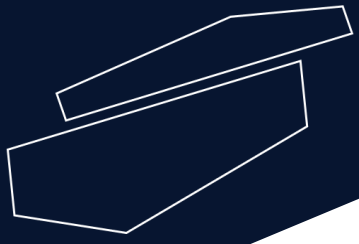
DELIVERING LAB SOLUTIONS



BASIC Magnetic stirrer without heating

Please read the User Manual carefully before use, and follow all operating and safety instructions!



user manual

english

User manual

EN

BASIC Magnetic stirrer without heating

Introduction

Users must read this manual carefully before using the equipment, and follow the instructions and procedures in order to be aware of all the precautions, as well as in order to obtain the maximum benefits and duration of the equipment.

Service

If help is needed, contact with your supplier/manufacturer or Letslab via:
www.letslab.com

Please, provide the customer service representative with the following information:

- Serial number (on the back side)
- Description of the problem
- Your contact information

Warranty

The BASIC magnetic stirrer without heater has a 24 month warranty from the dateof the purchase for material and/or production faults if used as described in this manual.

The warranty may only be extended to the original purchaser.
This warranty is not applied to the equipment or to any part damaged due to a badinstallation, bad connections, wrong use, accident, or abnormal use conditions.
For claims about the warranty, please contact your supplier/manufacturer.

1. Safety Instructions

	Connect the equipment to a grounded power supply to ensurethe safety of the equipment and the experiment. Connect the power when the equipment requires it.
	The use of this equipment in inflammable and explosive, toxic,or highly corrosive experiments is forbidden.
	Place the magnetic stirrer on a flat, horizontal, and stable table,leaving at least 30 cm of free space on each side.
	The magnetic stirrer must be used only by previously qualifiedstaff that is familiar with the equipment and knows how to operate it according to the instructions manual.
	Caution –the stirrer can have magnetic effects and the staff mustkeep in mind the magnetic field; for example, in cases like data storage, artificial pacemakers…
	Do not place the magnetic stirrer near heat sources.

- Make sure that only trained staff operates this equipment.
- Always use this stirrer as specified in this manual.
- In case of abnormal conditions during the operation of the stirrer, please turnOFF the equipment immediately and contact your supplier/manufacturer.
- Keep away from high magnetic fields.
- While using the equipment, use personal protective equipment to prevent therisks from:
  - Splashing and evaporation of liquids
  - Release of toxic or flammable gases
- Place the equipment on a spacious, stable, clean, non-slip, dry, and fireproofsurface that can support the weight of the equipment.
- Do not use the equipment in explosive or flammable environments, or withhazardous materials.

- Increase the stirring speed gradually. Reduce the speed if:
  - The stirring bar comes off due to high speed
  - The equipment is not running smoothly or the container moves on thebase plate
- The equipment can only be disconnected from the power supply by pulling outthe mains plug.
- Make sure that the power supply's voltage matches the necessary voltage forthis instrument.

2. Use Instructions

This equipment is designed for stirring and/or heating substances with educational purposes, in laboratories, or in factories. This equipment is not suitable for use in residential areas or other areas that could be dangerous for the user.

3. Inspection

3.1. Unpacking

Unpack the equipment carefully and check for any apparent damages that may have arisen from transportation. If necessary, please contact your supplier.



Note:
If there is any apparent damage to the equipment, do not plug it into the power line.

3.2. Items list

The package includes the following items:

Items	Qty
Main unit	1
User Manual	1
Base	1
Power adapter	1

4. Control

4.1. Control elements



1. "Power" LED
2. Speed control knob
3. Base plate
4. Stirrer support

Figure 1: STIS-00B-001 series

5. Operating

Note: Increase the stirring speed gradually to prevent splashing from liquids or themagnetic bat coming off the vessel.

- Place the equipment on a flat, stable surface that can support the weight of the equipment leaving 30 free cm on each side.
- Using the power adapter, plug in the equipment.
- Turn the speed control knob clockwise to turn on the stirrer; you will hear a light sound and the Power LED will light up (blue).
- Increase the stirring speed by turning the speed control knob clockwise. Reduce the speed by turning the speed control knob counterclockwise.
- The stirrer's speed range is from 300 rpm to 2000.
- Turn OFF the equipment by turning the speed control knob all the way counterclockwise; you will hear a light sound and, at the same time, the Power LED will turn off.

6. Faults

- The equipment cannot be switched ON
  - Make sure the power supply is working.
  - Make sure the cable is plugged in.
- The stirring speed cannot reach the programmed speed:
  - Excessive medium viscosity may cause an abnormal speed reduction.

If these faults are not resolved, contact the supplier/manufacturer.

7. Cleaning and maintenance

- Proper maintenance can keep Instruments working and lengthen their lifetime.
- Do not spray cleanser directly onto the equipment when cleaning it.
- Disconnect the equipment from the power supply when cleaning.
- Use only the recommended cleansers for each situation:

Dyes	Isopropyl alcohol
Construction materials	Water containing surfactants / Isopropyl alcohol
Cosmetics	Water containing surfactants / Isopropyl alcohol
Food products	Water containing surfactants
Fuels	Water containing surfactants

- Before using any other cleaning or decontamination methods, verify with the manufacturer or supplier that such method will not harm the equipment. Always use proper protective gloves while cleaning.



Note:

- Electronic devices may not be cleaned with cleanser.
- If maintenance service is needed, the equipment mustbe cleaned prior to shipping, to avoid pollution from hazardous substances, and shipped in its original packaging.
- If the equipment will not be used for a long time, power off and place in a dry, clean, stable location atroom temperature.

8. Applicable Regulations

Manufacturing according to the following safety regulations:
EN 61010-1 (Safety requirements for electric media, control, and laboratoryinstruments; Part 1: General Requirements.) UL 3101-1 (Electronic Instruments for use in laboratories; Part 1: GeneralRequirements.) CAN/CSA C22.2 (1010-1)

Manufacturing according to the following EMC standards:
EN 61326-1 (electromagnetic compatibility)
EU associated guidelines:
EMC-guidelines: 2004/108/CE Instrument guidelines: 73/023/EWG

Changes or modifications not expressly approved for the party responsible for thecompliance can void the user's authority to use the equipment

9. Technical Characteristics

Items	Parameters
Voltage [V]	100-240
Frequency [Hz]	50/60
Power [W]	1.2W
Speed range [rpm]	300-2000
Max. [H_2O,L]	1.5
Base plate [mm]	Ø120
Base plate material	PET (tereftalato de polietileno)
Container material	Anti-inflamable
Dimensions [mm]D x W x H	145x150x50
Weight (kg)	0.3
Room temperature permitted [°C]	5-40
Relative humidity permitted	80%
Protection class (DIN EN60529)	IP21

10. Accesories

Please contact our company to order the accessories available for this device: magneticstirring bars. For additional help, please visit www.letslab.com .

Nota importante para los aparatos electrónicos vendidos en España

Instrucciones sobre la protección del medio ambiente y la eliminación de aparatos electrónicos:



Los aparatos eléctricos y electrónicos marcados con este símbolo no pueden ser eliminados en forma de residuos urbanos.

De conformidad con la Directiva 2012/19/UE, los usuarios de la Unión Europea de aparatos eléctricos y electrónicos, tienen la posibilidad de devolver sus RAEE para su eliminación al distribuidor o fabricante del equipo después de la compra de uno nuevo. La eliminación ilegal de aparatos eléctricos y electrónicos es castigada con multa administrativa.

Remarque importante pour les appareils électroniques vendus en France

Informations sur la protection du milieu environnemental et élimination des déchets électroniques :



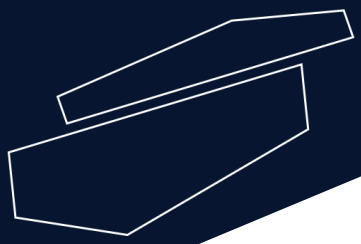
Les appareils électriques et électroniques portant ce symbole ne peuvent pas être jetés dans les décharges.
En réponse à la règlementation, Labbox remplit ses obligations relatives à la fin de vie des équipements électriques de laboratoire qu'il met sur le marché en finançant la filière de recyclage de ecosystem dédiée aux DEEE Pro qui les reprend gratuitement (plus d'informations sur www.ecosystem.eco).
L'élimination illégale d'appareils électriques et électroniques est punie d'amende administrative.

Nota importante per le apparecchiature elettroniche vendute in Italia

Istruzioni sulla protezione ambientale e sullo smaltimento dei dispositivi elettronici:



Le apparecchiature elettriche ed elettroniche contrassegnate con questo simbolo non possono essere smaltite come rifiuti urbani.
In conformità con la Direttiva 2012/19 / UE, gli utenti dell'Unione Europea di apparecchiature elettriche ed elettroniche hanno la possibilità di restituire i propri RAEE per lo smaltimento al distributore o al produttore di apparecchiature dopo averne acquistato uno nuovo. La rimozione illegale di apparecchiature elettriche ed elettroniche è punibile con una sanzione amministrativa.



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