



IbX instruments S01 Compact Magnetic Stirrer without Heating User Manual

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IbX instruments S01 Compact Magnetic Stirrer without Heating



Preface

Users should read this Manual carefully, follow the instructions and procedures, and beware of all the cautions when using this instrument.

Service

If help is needed, you can always contact your dealer or Labbox via www.labbox.com. Please, provide the customer service representative with the following information:

- Serial number
- Description of the problem
- Your contact information

Safety Instructions

The detailed precautions described in the user manual are carefully developed with intent to cover all the possible risks. Please read carefully before operating this magnetic stirrer:

- Never use the stirrer in any way other than the specified in these instructions.
- In case of something abnormal happening during operation, please stop using the equipment immediately and contact your supplier.
- Effects of the magnetic field must be taken into account (i.e. data storage media, cardiac pacemakers ...). Keep away from high magnetic fields.
- When working, wear the necessary personal protective equipment to avoid the risk of:
 - Burns caused by splashing and evaporation of liquids
 - Intoxication caused by release of toxic or flammable gases.
- Set up the instrument on a spacious, stable, clean, non-slip, dry and fireproof surface. Do not operate the instrument in explosive atmospheres, with hazardous substances, or under water.
- Gradually increase the speed, reduce the speed if:
 - The stirring bar comes off due to a too high speed
 - The instrument is not running smoothly, or the container moves on the base plate
- If the stirring bar contains PTFE, please note:
 - Elemental fluorine, trifluoride ion, and alkali metals will corrode PTFE. Halogen hydrocarbons expand PTFE at room temperature.
 - Molten alkali, alkaline earth metals or their solution, as well as elements on second and third column of

the Periodic Table of elements will react with PTFE when temperature reaches 300 ~400 °C

- Process pathogenic materials only in closed vessels.
- The instrument can only be disconnected from the main power supply by pulling out from the mains plug, not the cable.
- The voltage stated on the label must correspond to the main power supply.
- The instrument may only be opened by experts.

Inspection

Unpacking

Unpack the equipment carefully and check for any damages that may have arisen during transportation. Please contact your supplier for technical support.

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

Listing of Items

The package includes the following items:

Items	Qty
• Main unit	1
• User Manual	1

Control

- **Control elements**

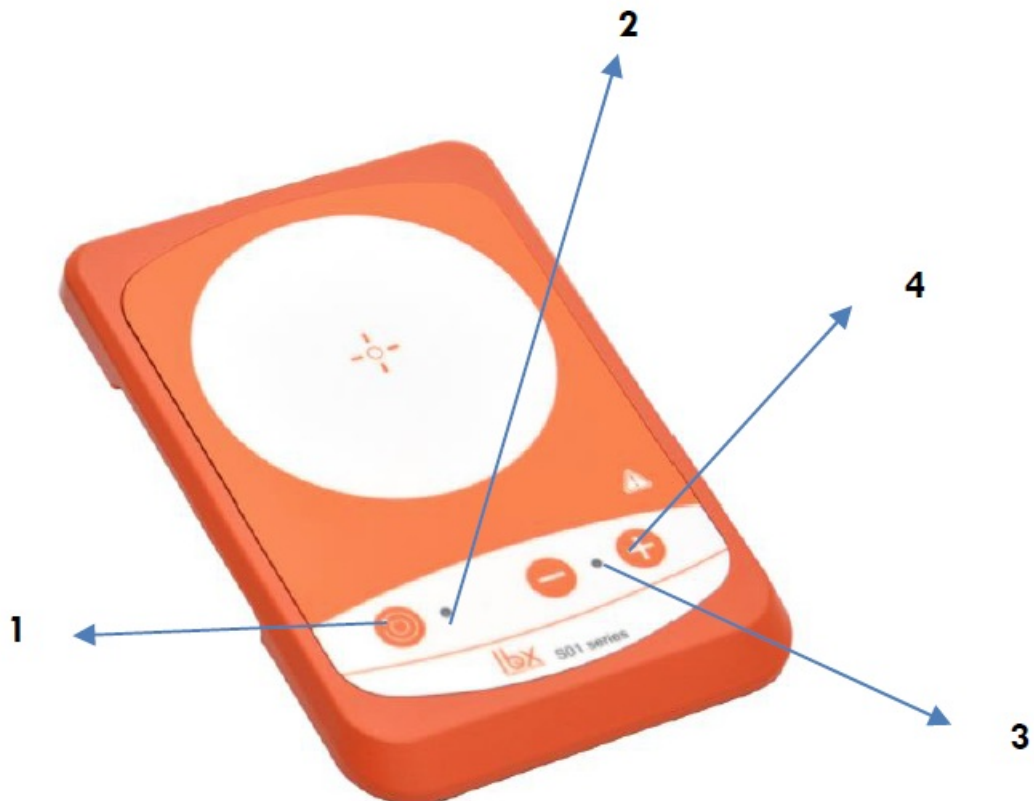


Figure 1: S01 series

Operation

Switch on/off

1. **Switch on:** Press button 1 for over a second to switch on the instrument; the green indicator (2) will light up.
2. **Switch off:** Press button 1 for more than 1 second to switch off the instrument; both indicators will turn off.

Reverse mode

Press the button 1 to switch ON/OFF the reverse mode and invert the stirring direction at regular intervals.

1. **ON:** The stirring direction will be reversed every 15 seconds. The function indicator 2 will flash when the reverse mode is ON.
2. **Off state:** The stirring direction will stay the same, function indicator 2 stays lit.

Speed setting

1. Press the button 4 (+ and -) to reduce or increase the speed, the stepping rate is 10 rpm.
2. Long press the button 4 (+ and -) to change the set speed continuously, the speed indicator 3 flashes during the operation.
3. When the set speed reaches the max. speed (1500 rpm) or min. speed (15 rpm), the display indicator 3 will stop flashing.
4. The display indicator 3 will stop flashing and stay lit once the actual speed reaches the set speed.

Faults

- Instrument cannot be switched ON
 - Check whether the power line is unplugged
- Fault in the ignition test.
 - Switch OFF the unit and then switch it back ON.
- The stirring speed cannot reach the set point
 - Excessive medium viscosity may cause an abnormal motor speed reduction.
- The equipment won't turn OFF by pressing the switch.
 - Check whether the residual heat warning function is still on and the hotplate temperature is still above 50 °C (the LED screen is still working and "HOT" appears on the screen).

Maintenance and Cleaning

- Proper maintenance can keep instruments working properly and lengthen their lifetime.
- Do not spray cleanser onto the instrument when cleaning.
- Unplug the power line when cleaning.
- Only use recommended cleansers:

Dyes	Isopropyl alcohol
Construction materials	Water containing surfactants / Isopropyl alcohol
Cosmetics	Water containing surfactants / Isopropyl alcohol
Foodstuffs	Water containing surfactants
Fuels	Water containing surfactants

Table 2

- Before using any other cleaning or decontamination methods, verify with the manufacturer that such method will not harm the instrument. Wear the proper protective gloves when cleaning the instrument.

Note:

- Electronic devices cannot be cleaned with cleanser.
- If maintenance service is needed, the instrument must be cleaned in advance to avoid pollution from hazardous substances, and shipped in its original packing.
- If the instrument will not be used for a long time, please switch off and place in a dry, clean stable location at room temperature and.

Applicable Regulations

Manufacture pursuant to the following safety regulations:

EN 61010-1 (Safety requirements for electronic measurement and control equipments and equipments for use in laboratories; Part 1: General Requirements)
 UL 3101-1 (electronic equipments for use in laboratories; Part 1: General Requirements)
 CAN/CSA C22.2(1010-1)
 EN 61010-2-10 (Heating)

Manufacture pursuant to the following EMC regulatios:

EN 61326-1 (Electromagnetic Compatibility)

EU associated guidelines:

EMC guideline: 2004/108/CE
 Equipment guideline: 73/023/EWG

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Specifications

- **Voltage [VAC]** 100-240
- **Frequency [Hz]** 50/60
- **Max. power input of motor [W]** 5
- **Max. power output of motor [W]** 3
- **Speed range [rpm]** 15-1500
- **Max. Stirring quantity [H₂O, L]** 0.8
- **Max. load capacity [Kg]** 2.0
- **Material** ABS
- **Dimensions of workplate (mm)** 90 x 90
- **Dimensions (mm)** 175×120×15
- **Weight [kg]** 0.3
- **Permitted ambient temperature [°C]** 5 – 40
- **Permitted relative humidity** 80%
- **Protection class acc. to DIN 60529** IP65

Accessories

Please contact our company to order the following accessories available for this device: magnetic stirring bars, PT1000 temperature sensor with glass coating, and support clamp for temperature sensor. Rogamos se pongan en contacto con nuestra empresa para solicitar los siguientes accesorios disponibles para estos equipos: varillas magnéticas, sensor de temperatura PT1000 con cubierta de vidrio y soporte de fijación para sensor de temperatura.

Warranty

This instrument is guaranteed to be free from defects in materials and workmanship under normal use and service, for a period of 24 months from the date of invoice. The warranty is extended only to the original purchaser. It shall not apply to any product or parts which have been damaged on account of improper installation, improper connections, misuse, accident or abnormal conditions of operation. For claim under the warranty, please contact your supplier.

www.labbox.com

Documents / Resources



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S01 Compact Magnetic Stirrer without Heating, S01, S01 Magnetic Stirrer, Magnetic Stirrer, Magnetic, Stirrer without Heating, Compact Magnetic Stirrer without Heating, Heating

References

- [Lab supplies - Labbox Export](#)

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