

Magnetic stirrer with heating

LABOTRIX STIR H1

PRODUCT PASSPORT

Kyiv

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1. General Information about the Product

- 1.1. **Product name** — Magnetic stirrer with heating.
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Stir H1; full trade designation — LABOTRIX STIR H1.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** the device is used for mixing liquid substances in chemical glassware: a rotating magnetic stir bar is immersed in a vessel with liquid, the device's drive maintains its rotation, and if needed the sample is simultaneously heated. The product is used in chemical laboratories, research institutions, medical and pharmaceutical facilities for preparing solutions, diluting reagents, extraction and other processes that require a combination of heating and stirring.
- 1.6. **Design features:** the device has two independent rotary controls — one for the stir bar rotation speed and one for the heating surface temperature, which heats up to a maximum of 280 °C. The height of the working plate can be adjusted. The stir bar rotates smoothly, without splashing liquid or vibration. A light indicator shows the operating state of the device, and the housing design prevents accidental contact with the hot surface. A removable holder stand about 300 mm long is attached to the device housing; a thermometer or a pH sensor is installed in its clamp to measure the liquid temperature directly in the vessel.

2. Technical Specifications

- Brand — Labotrix
- Model — Stir H1
- SKU — LTX-STIR-H1
- Working volume of the mixing vessel (liter) — 1
- Stir bar rotation speed (rpm) — from 0 to 1600
- Magnetic stir bars (stirrers) — 3 pcs made of PTFE fluoroplastic
- Stir bar dimensions — C5/B6 × 15 mm, C6/B7 × 20 mm, C6/B8 × 25 mm
- Holder for thermometer or pH sensor on the removable stand (mm) — attached to the housing, length approximately 300
- Heating surface — cast aluminum alloy, enclosed design, resistant to reagent ingress
- Heating temperature control — mechanical knob, maximum working surface temperature 280 °C
- Speed control — mechanical knob
- Operating status indicator — light or display (depending on version)
- Power supply — from a 220 V, 50/60 Hz electrical mains
- Heating power — sufficient to heat the working surface up to 280 °C
- Stir bar materials — PTFE fluoroplastic
- Base material — metal housing with a resistant coating
- Operating conditions — premises of an educational institution, air temperature from +5 to +40 °C, relative humidity from 40 to 60 % without condensate
- Overall dimensions (millimeter) — depends on the model
- Weight (kilogram) — depends on the model
- Language of marking and operating documentation — Ukrainian

- Product marking — trademark, model and a space for the inventory number
- Packaging — individual box of corrugated cardboard with the contents secured
- Documentation supplied — product passport with warranty card and operating manual
- Ready-to-use condition — supplied assembled, requires no preliminary setup
- Surface care — the housing allows wiping with a dry or slightly damp cloth
- Visual indication — separate indicators for the stirring mode and the heating mode
- Stir bar maintenance — removed from the vessel for washing without disassembling the device
- Service life (year) — 5
- Warranty period (month) — 12

3. Package Contents

- Magnetic stirrer with heater — 1 pcs
- Magnetic stir bar (stirrer) — 1 set (3 pcs of different sizes)
- Removable stand with holder for thermometer or pH sensor — 1 pcs
- Power cord with plug — 1 pcs
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The device is supplied with PTFE stir bars for chemical resistance. Additional stir bars compatible with this model may be purchased separately. The device does not require assembly before use.

4. Safety Precautions

4.1. General requirements

- The device is used by specialists who have completed appropriate occupational safety training.
- Before first use, read this passport and follow all instructions.
- Do not leave the device unattended during operation.
- Make sure the device is installed on a stable surface free of vibrations.
- Position the device at a safe distance from the edge of the table.

4.2. Electrical safety

- Before connecting, check that the voltage and frequency of the electrical mains match the passport data.
- Use the device only with a grounded outlet.
- Do not touch the plug and the cable with wet hands.
- Do not immerse the cable in water or liquid.
- If damage to the cable is detected, turn off the device immediately.
- Do not leave the device connected to the mains without necessity.

4.3. Thermal safety

- The working plate becomes hot during operation — avoid direct contact.
- Avoid open flame and flammable materials near the device.

- Use rigid pads to protect your hands during operation.
- Do not carry the device during heating.
- After finishing work, let the device cool down before disassembly.

4.4. It is strictly prohibited

- Using the device outside the 0–1600 rpm range and without observing the maximum liquid volume.
- Turning on the device without a stir bar in the beaker.
- Immersing the base and the cable in liquid.
- Disassembling the device or attempting to modify its design.
- Pouring liquid onto the device housing or the plate.
- Using the device near flammable materials.
- Leaving the device unattended while it is connected to the mains.

5. Preparation for Use

- 5.1. Unpack the device and inspect it for damage during transportation.
- 5.2. Position the device on a horizontal, stable table surface at the height required for work.
- 5.3. Set the optimal height of the working plate by turning the platform lifting knob.
- 5.4. Secure the lifting knob with the locking fixture to prevent accidental movement during operation.
- 5.5. Select a magnetic stir bar of the required size depending on the volume and type of liquid you plan to mix.
- 5.6. Place the beaker with liquid at the center of the working plate.
- 5.7. Place the magnetic stir bar in the beaker so that it is positioned at the center of the bottom.
- 5.8. Connect the power cord to a grounded outlet.

6. Operating Procedure

6.1. Turning on the device

- Set the power switch to the "on" position — the indicator light will come on.
- Make sure the stir bar in the beaker is positioned correctly and does not touch the walls.

6.2. Stirring speed control

- Turn the "STIR" knob to set the required stir bar rotation speed.
- Start at a low speed and gradually increase it to the required value.
- During operation, the stirring indicator lights up.
- Maximum speed — 1600 rpm

6.3. Heating temperature control

- Turn the "HEAT" knob to set the required temperature (up to 280 °C).
- To activate heating, press the "HEAT" knob all the way in.
- During heating, the red indicator lights up.
- Wait a few minutes for the liquid to reach the required temperature.

6.4. Temperature measurement

- Secure the thermometer or pH sensor in the holder of the removable stand attached to the device housing.
- Immerse the sensing element of the thermometer or sensor in the liquid to directly measure its temperature.
- Monitor the readings of the thermometer or sensor during heating, adjusting the position of the "HEAT" knob as needed.

6.5. Finishing the work

- Slowly reduce the rotation speed to zero.
- Turn off the heating (if it was used).
- Turn off the device by setting the switch to the "off" position.
- Let the device cool down to a safe temperature before disassembly.
- Remove the stir bar from the beaker and wash it.

7. Care, Maintenance and Troubleshooting

7.1. Cleaning

- After operation, wipe the outer housing of the device with a dry or damp soft cloth.
- Wash the stir bars with warm water and a neutral detergent, and dry them.
- To remove stubborn contamination, use a soft sponge, but not abrasive materials.
- Do not immerse the base of the device in water.
- Regularly check and clean the contacts of the stir bar and the socket.

7.2. Periodic inspection

- Once a month, check the integrity of the power cord and plug.
- Make sure the stir bars easily enter and leave the socket.
- Make sure the surface of the plate remains clean.
- If any malfunction is detected, contact an authorized service center.
- The device does not require lubrication or other maintenance operations, except cleaning.

7.3. Possible malfunctions and methods of their elimination

Symptom	Possible cause	User actions
The instrument does not switch on	The outlet has no power; damage to the plug or cable	Check the outlet with another device; check the integrity of the cable; if damaged, contact the service center
The stir bar does not rotate	The stir bar is not installed correctly in the socket; contamination of the contacts	Check the position of the stir bar; clean the contacts with a dry cloth
The stir bar rotates unevenly or with vibrations	The stir bar is deformed; the working plate is unstable or tilted	Replace the stir bar; check the stability of the platform; adjust the height

Symptom	Possible cause	User actions
Water has entered the housing	Liquid poured too forcefully; liquid splashing	Turn off the device immediately; let it dry in the air for several hours; if necessary, contact the service center
Heating does not work	The heating knob is not activated; incorrect temperature setting	Press the "HEAT" knob all the way in; get help from an instructor

8. Storage and Transportation Conditions

- Store the device in a dry, enclosed room at a temperature not below +5 and not above +40 °C and humidity not exceeding 80 %.
- Do not subject the device to intense vibrations, impacts or extreme temperatures.
- Protect the device from direct sunlight and from heat sources.
- Remove the stir bars from the socket before long-term storage.
- Transport the device in its original packaging or in a special protective case.
- During transportation, make sure the device is protected from moisture and impacts.
- The storage period before commissioning is unlimited provided that the stated requirements are observed.

9. Warranty Obligations

- 9.1. The warranty period of operation of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product conforms to the declared technical specifications provided that the transportation, storage and operating rules set out in this passport are observed.
- 9.3. During the warranty period, defects of the product that have arisen through the fault of the manufacturer are remedied free of charge. The method of remedy (repair, replacement of a component or replacement of the product) is determined by the service center.
- 9.4. Warranty service is provided on presentation of a correctly and completely filled-in warranty card and of a document confirming the fact and the date of purchase.
- 9.5. The warranty does not cover cases where the malfunction is caused by:
 - mechanical damage, in particular cracks, chips and deformation of the housing and of the components of the product;
 - violation of the operating, storage or transportation rules set out in this passport;
 - ingress of liquid or foreign objects into the product, and also the action of insects and animals;
 - independent disassembly, repair or modification of the product, in particular repair at unauthorized workshops;
 - use of the product other than for its intended purpose;

- force majeure circumstances (fire, flood, earthquake, etc.).

9.6. The warranty does not cover the natural wear of the coating and of the appearance of the product, nor consumables.

10. Product Disposal

- The product must not be disposed of together with unsorted municipal waste. This is indicated by the marking in the form of a crossed-out container on the product or its packaging.
- After the end of the service life, hand the product over to a collection point for the corresponding waste or to an organization holding the appropriate permit.
- Hand over the packaging elements (cardboard, polymer materials) to the corresponding streams of recyclable materials.

Contacts

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Conditions of use and storage of the product

The product is intended for educational work in general secondary education institutions and is used only under the control and supervision of a teaching staff member; the recommended age of students — from 10 years, that is, students of grade 5 and of higher grades. Keep the product in a dry, clean and ventilated room at a temperature from +5 to +40 °C and relative air humidity up to 80 % without condensation, separately from heat sources and out of direct sunlight, moisture and dust. Use the product exclusively for its intended purpose and do not allow drops, impacts or other mechanical damage. If you notice damage, a crack or any malfunction, stop working with the product immediately and inform the teacher or the responsible person of the educational institution; repairing the product on your own is prohibited.

WARRANTY CARD

Name:	Magnetic stirrer with heating
Product model:	LABOTRIX STIR H1
Serial number:	
Date of sale:	
Warranty period:	12 months from the date of sale
Trading organization:	
Signature of the seller:	

The goods have been received in working order, without visible damage, complete, and have been checked in my presence. I have no claims regarding the quality of the goods; I have read and agree to the operating and warranty service conditions.

Full name of the buyer _____

Telephone of the buyer _____ Signature of the buyer _____

Dear Customer!

Thank you for choosing Labotrix products. After-sales service of this product is provided in accordance with the regulations of the company and the legislation of the country of sale. So that we can serve you quickly and without unnecessary formalities, check that this warranty card is filled in correctly at the moment of purchase and keep it together with the payment document throughout the entire warranty period. When applying for repair, hand the product over to the seller or to the service center together with the filled-in card.

Procedure for applying

1. The right to free warranty service of the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed because of a manufacturing defect are repaired or replaced at no cost to the buyer.
2. Before applying, make sure that the malfunction is not caused by the reasons listed in section 9 of this passport and, if possible, use the table of possible malfunctions in subsection 7.3.
3. After the end of the 12-month warranty period, repairs are performed on a paid basis; the cost of the work and of the spare parts is determined depending on the nature of the malfunction.

Grounds for refusal of warranty service

The company reserves the right to refuse free service or to perform the work on a paid basis if at least one of the following circumstances is established:

- absence of the warranty card, its incomplete or corrected completion, and also the absence of a document confirming the purchase;
- non-conformity of the serial number of the product with the number specified in the card, or damage to the factory marking;
- traces of independent disassembly, repair or modification of the product;
- damage caused by violation of the operating rules, connection to an unsuitable power source or external mechanical impact;
- damage as a result of force majeure circumstances.

Service Records

Date of entry	Description of the malfunction	Work performed	Position, signature, full name of the responsible person