

Distiller

LABOTRIX AQUA D2

PRODUCT PASSPORT

Kyiv

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1. Basic product information

- 1.1. Product name — Distiller.
- 1.2. Trademark — Labotrix.
- 1.3. Model — Aqua D2; full trade name — LABOTRIX AQUA D2.
- 1.4. Manufacturer — Labotrix Group Limited, China.
- 1.5. Intended use: The distiller is designed to produce distilled water in laboratory conditions. The device is used in science classrooms of secondary education institutions for preparing solutions, conducting experiments, washing laboratory glassware, and other laboratory work that requires clean water without mineral impurities.
- 1.6. Design features: A tabletop electric device with a sealed stainless steel tank and a cooling system in the top cover. Equipped with thermal protection, an operation indicator, an activated carbon filter for additional purification of distilled water, and a storage tank for storing the product.

2. Technical specifications

- Brand — Labotrix
- Model — Aqua D2
- The article number is LTX-AQUA-D2
- Product type — laboratory distiller
- Supply voltage (volts) - 220 or 110
- Current frequency (hertz) - 50 or 60
- Power consumption (watts) — 750
- Tank volume (liters) — 4
- Productivity (liters per hour) — 1
- Overheating protection (degrees Celsius) - shuts off at 160
- Tank material - stainless steel
- Cooling system - in the top cover with a fan
- Storage capacity - built-in
- Filter - made of activated carbon, depending on water quality, needs to be replaced every 2–3 months
- Start - "Start/Reset" push-button system for starting and restarting
- Operation indicator - LED display
- Drain cap — available for safe removal of distilled water
- Dimensions and weight - indicated in the product passport and on the nameplate
- 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

- Installation method - tabletop, near a water source for convenient filling of the tank
- Ready-to-use condition — supplied assembled, requires no preliminary setup
- User requirements - the device is operated by a teacher or laboratory assistant, independent work of students with hot parts is not allowed
- Operating conditions — premises of an educational institution, air temperature from +5 to +40 °C, relative humidity from 40 to 60 % without condensate
- Service life (year) — 5
- Warranty period (month) — 12

3. Equipment

- Distiller — 1 pc.
- Storage tank for distilled water — 1 pc.
- Drain cap — 1 pc.
- Container lid — 1 pc.
- Activated carbon filter — 1 pc.
- Power cord — 1 pc.
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The user purchases the cleaning agent (citric acid or white vinegar) themselves.
The device does not require assembly before first use.

4. Safety measures

4.1. General requirements

- Please read this passport carefully before first use and keep it with the appliance and proof of purchase.
- Use the appliance in a dry, well-ventilated area, protected from splashes and spray.
- The direction of the spray affects the quality of the work; place the device in areas with minimal humidity.
- Make sure the power outlet is working, has the required power, and is not overloaded with other devices.

4.2. Electrical safety

- Connect the power cord only to a socket whose parameters match those on the appliance's rating plate.
- Do not leave the appliance switched on and unattended while it is in use.
- Unplug the appliance from the outlet when finished working and before performing maintenance.
- Never immerse any part of the appliance in water; the housing must remain dry.

4.3. Safety during operation and working with hot water

- During operation, the water temperature in the tank reaches approximately 160 °C. Handle hot parts of the appliance with care to avoid burns.
- Allow the appliance to cool for at least 10 minutes after the cycle is complete before removing the lid or storage container.
- Do not handle the hot storage tank with bare hands. Use an oven mitt or wait until it has cooled down.
- Supervise children and people who may not be aware of the dangers of hot steam and hot water.

4.4. It is strictly forbidden

- Remove the top cover while the appliance is operating or while it is still hot. There is a risk of burns from steam and hot water.
- Pouring liquids other than water into the tank and distilling them (alcohol, acid and alkali solutions, salt or mineralized water, etc.) will damage the device and create a hazard.
- Leave the appliance on unattended for a long period of time or without checking the water level in the tank.
- Clean the internal parts with a metal brush to avoid damaging the tank surface.
- Use the device in rooms with temperatures below +5 °C or above +40 °C.

5. Preparation for work

- 5.1. Unpack the distiller and check the completeness using this passport. Inspect the device for visible damage, chips and deformations.
- 5.2. Place the appliance on a stable, flat, horizontal surface free from vibrations. It is best to place it near a sink for easy access to water.
- 5.3. Leave sufficient space around the appliance for air circulation and freedom of use of the top cover.
- 5.4. Check that the power cord is not damaged and that the plug is fully inserted into the outlet of the required power.
- 5.5. Fill the tank inside the distiller with clean water up to the maximum level mark using a jug or other container. Do not pour water above the mark and avoid hot water, which may disrupt the thermal protection.
- 5.6. Keep the body of the appliance dry. Pour water only into the inner tank through the special hole, not onto the body.
- 5.7. Replace the top cover, making sure that the silicone seal is properly positioned around the perimeter.
- 5.8. Connect the power cord of the top cover to the device body, and then connect the power cord to the outlet.

6. Procedure

6.1. Launch and wait for the result

- After plugging in the power cord, the fan will start to operate. Press the "Start/Reset" button to start the distillation cycle.
- The indicator on the panel will show that the device is working. Within about 30 minutes, distilled water will begin to drip from the tap into the storage tank.
- The distillation cycle of 4 liters of water takes approximately 4 hours. The device switches off automatically when finished.

6.2. First batch of water

- Do not drink the first filled container or use it for critical experiments. The device spends this cycle on self-cleaning.
- Pour out the water from the first batch, rinse the storage tank with clean water and run a normal cycle.

6.3. Cooling before removing parts

- When the storage tank is full, the appliance stops working. Disconnect the power cord of the top cover and the power cord to prevent burns.
- Allow the appliance to cool for at least 10 minutes before removing the lid and container.

6.4. Extraction of distilled water

- Remove the water through the special drain cap on the storage tank or using a pipette.
- Be careful not to spill the hot water.

7. Care, maintenance and possible malfunctions

7.1. Daily cleaning and maintenance

- Every day after the cycle is complete, wipe the outer casing of the appliance with a soft, dry cloth.
- Rinse the inner tank with clean water; remove the storage tank, pour out the remaining water and dry it.
- Do not immerse the device body in water or wash it under running water.

7.2. Descaling and preventive maintenance

- Every two weeks, remove the scale and mineral deposits that accumulate at the bottom of the tank. Pour hot water to cover the scale.
- Pour 1 to 4 teaspoons of cleaning agent (citric acid or white vinegar) into the tank, depending on the amount of scale.
- Start the cycle with the "Start/Reset" button without the top cover for 30 minutes.
- Pour out the water and rinse the inside of the tank with clean water several times. If the scale is not completely removed, repeat the procedure.

- Replace the activated carbon filter every 2-3 months. To do this, open the top cover and remove the filter by pressing and pulling it downwards. Replace the new filter.

7.3. Possible malfunctions and ways to eliminate them

Symptom	Possible cause	User actions
Distilled water is not coming in	The power cord is not connected; there is no voltage in the outlet; the start button is not pressed; there is no water in the tank	Check the outlet by turning on another appliance; make sure there is water in the tank; press "Start/Reset"
Low distilled water at end of cycle	Water is not filled to the maximum level mark; the top cover is not tight; the sealing ring is damaged	Add water to the mark, check that the top cover is tightly closed; replace the O-ring
The appliance makes a grinding or unusual noise during operation.	Scale in the tank; incorrect installation of the top cover	Remove scale with cleaning agent; reinstall the lid and check the seal
The indicator light is not on.	There is no voltage in the socket; the plug is not fully inserted; the socket is faulty.	Check the outlet with another appliance; make sure the plug is fully inserted.
The water temperature at the end of the cycle is too high.	This is normal; allow the appliance to cool before removing the lid.	Let stand for at least 10 minutes before opening; use a potholder.
Storage capacity is full.	The cycle ended, but the container was not removed in time	Pour out the water, replace the container, and continue with another cycle.

8. Storage and transportation conditions

- Store the distiller in a dry, closed room at a temperature not lower than +5 °C and not higher than +40 °C and a relative humidity of up to 80%.
- Before long-term storage, drain all water from the tank and storage container and dry the appliance.
- Protect the device from direct sunlight, dust, mechanical shock and vibration.
- Keep the power cord short, without kinks or pinching to prevent damage to the insulation.

- When transporting, pack the distiller in its original rigid packaging with gaskets. Do not place heavy objects on top of the packaging.
- Transport the device in a closed vehicle in a horizontal position. The total storage period before commissioning is not limited if the above conditions are met.

9. Warranty obligations

- 9.1. The warranty period of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product complies with the declared technical characteristics, provided that the rules for transportation, storage and operation set out in this passport are followed.
- 9.3. During the warranty period, product defects that have arisen due to the manufacturer's fault will be eliminated free of charge. The method of elimination (repair, component replacement or product replacement) is determined by the service center.
- 9.4. Warranty service is provided upon receipt of a correctly and completely filled out warranty card and a document confirming the fact and date of purchase.
- 9.5. The warranty does not apply to 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 apply to natural wear and tear of the coating and appearance of the product, as well as to 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

Product name:	Distiller
Product model:	LABOTRIX AQUA D2
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

Buyer's phone number Buyer's signature

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 for the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed due to a manufacturing defect are repaired or replaced without payment from the buyer.
2. Before contacting, 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 section 7.3.
3. After the 12-month warranty period, repairs are carried out for a fee; the cost of work and 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