

Cardiopulmonary resuscitation trainer

LABOTRIX RESQ Q1

PRODUCT PASSPORT

Kyiv

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1. General Information about the Product

- 1.1. **Product name** — cardiopulmonary resuscitation training manikin.
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Resq Q1; full trade designation — LABOTRIX RESQ Q1.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** the manikin is used to practice the basic techniques of cardiopulmonary resuscitation — checking for signs of life, chest compressions, and "mouth-to-mouth" breathing. The product is used in biology and health basics lessons, during first aid classes, in school club activities, and in practical training sessions for educational institution staff.
- 1.6. **Design features:** the product reproduces the upper part of the torso with the head in natural proportions and is made of molded polyvinyl chloride. The head tilts back, so the student sets the airway position the same way as on a person. The correctness of a breath is visible without instruments: with a sufficient volume of air, the chest visibly rises. The compression point on the chest is marked, and an internal mechanism creates resistance to compression and returns the chest to its initial position. The pulse on the carotid artery is reproduced by a separate mechanism with electronic control, powered by a direct current source. The mouth and nose pieces are removable and replaceable, so an entire class takes turns working with a single manikin.
- 1.7. **Application restrictions:** the product is a training manikin, not medical equipment. It is not intended for diagnosing, treating, or providing assistance to a person, and it does not replace training under the guidance of a qualified person. Techniques practiced on the manikin are applied to a person only after training in accordance with the current rules for providing first aid.

2. Technical Specifications

- Brand — Labotrix
- Model — Resq Q1
- Product type — training manikin for practicing cardiopulmonary resuscitation techniques
- Version — upper torso with head, natural proportions
- Material — molded polyvinyl chloride
- Techniques practiced — checking the pulse on the carotid artery, chest compressions, "mouth-to-mouth" breathing
- Reproduction of the pulse on the carotid artery — a separate mechanism with electronic control, the pulsation is felt by touch
- Indicator of a correct breath — chest rise
- Compression point on the chest — marked on the surface
- Chest mechanism — creates resistance to compression and returns the chest to its initial position
- Head position — changed by tilting, sets airway patency
- Removable parts — mouth and nose pieces, suitable for replacement and disinfection separately from the manikin
- Power supply for the pulse mechanism — from a direct current source

- Installation method — freely, on a firm, level surface: a table of the appropriate height or a floor covering
- The number of students taking turns working with a single product — limited only by the number of replacement parts and protective items
- Suitability for disinfection — surfaces withstand products designed for plastics
- Language of the applied markings — Ukrainian
- Location for the inventory marking — a flat area on the manikin's base
- Scope of supply — the product is supplied assembled, requires no commissioning
- Scope of maintenance performed by the institution — disinfection, replacement of removable parts and batteries without disassembling the housing
- 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

Protective barrier film valves for artificial respiration are a consumable item and are purchased separately by the educational institution, at a rate of one per student performing breaths.

3. Package Contents

- Manikin: torso to the waist together with the head — 1 pcs
- Replacement mouth piece — set
- Replacement nose piece — set
- Operating manual — 1 pcs
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The quantity of replacement parts in the delivery is checked against the packing list immediately after unpacking. Batteries for the pulse mechanism, protective barrier film valves, and disinfectants are not included in the set and are provided by the educational institution.

4. Safety Precautions

4.1. General requirements

- Before first use, read this passport and keep it together with the manual throughout the entire service life of the product.
- The session is organized by a teacher or a person trained in providing first aid; independent, unsupervised work by students with the manikin is not allowed.
- Before the practical portion, explain to students that the manikin reproduces the mechanics of the techniques, while the sequence of actions and the ratio of compressions to breaths are set by the current rules for providing first aid.
- Techniques are practiced only on the manikin. Performing them on another person during the session is prohibited.
- Do not allow students for whom load on the shoulder girdle and spine is contraindicated to take part in the practical portion: practicing chest compressions requires physical exertion.

4.2. Hygiene and Epidemic Safety

- Before each change of student, disinfect the manikin's face and the mouth and nose pieces: during breaths, they come into contact with lips and mucous membranes.
- Each student works with an individual protective barrier film valve. Sharing one film valve is not allowed.
- Replace removable parts that show deformation, abrasion, cracks, or a persistent odor: a damaged part does not ensure hygiene and does not fit tightly.
- Do not allow students showing signs of an infectious illness to perform breaths; they perform only chest compressions.
- After the session, students must wash their hands.

4.3. Technique for Performing the Techniques

- Press on the chest **only at the marked point and vertically**: pressing on the side, at an angle, or on the edge of the chest damages the manikin's internal mechanism.
- Do not place the manikin on a soft surface — a mattress, a mat, a pillow: the compression force is absorbed by the surface, the resistance becomes false, and the student learns an incorrect sensation.
- Tilt the head smoothly, to its natural stop, without applying force.
- Do not press your fingers firmly against the manikin's neck when checking the pulse: the pulse mechanism is designed for light touch, not for pressure.
- Do not sit or lean on the manikin, and do not place foreign objects on it.

4.4. Handling of Batteries

- Use only batteries of the type and rating specified on the product housing; do not mix new and partially discharged batteries.
- Observe polarity when installing the batteries; if signs of electrolyte leakage appear, remove the batteries immediately without touching the contents with your hands.
- Remove the batteries if the manikin will not be used for more than a month.
- Do not charge batteries that are not designed for recharging, and do not throw them into fire.
- Turn in used batteries to a collection point separately from the product.

4.5. It is strictly prohibited

- Using the manikin to provide assistance to a person or for diagnosis.
- Performing breaths without an individual protective barrier film valve.
- Submerging the manikin in water or washing it under running water: the mechanism and electronic part are located inside.
- Treating surfaces with acetone, chlorine-based products, or high-concentration alcohol solutions — polyvinyl chloride becomes brittle and changes color from them.
- Disassembling the housing or independently repairing the chest mechanism and the electronic part.
- Continuing the session on a manikin whose chest does not return to its initial position or whose compression resistance has disappeared.
- Putting damp removable parts back after disinfection.

5. Preparation for Use

- 5.1. Remove the manikin from its packaging and inspect it from the outside: the surface must be intact, without tears, deep abrasions, or material buildup. A manikin with a torn surface is not allowed for use in class — water and disinfectants get inside through the tear.
- 5.2. Check the head's movement: it should tilt smoothly, without sticking, and return to the neutral position.
- 5.3. Install the batteries in the designated compartment observing polarity, and make sure that the pulsation on the carotid artery is felt by touch. If there is no pulse, resolve the power issue before the session begins, not during it.
- 5.4. Check the chest: press at the marked point and make sure it creates resistance and returns to its initial position.
- 5.5. Choose a location for the session: a flat, firm surface — a table of the appropriate height or a floor covering. The person performing the techniques should stand to the side of the manikin and be able to reach the chest with straightened arms.
- 5.6. Carry out sanitary treatment: disinfect the face, mouth, and nose pieces, dry them, and put them back in place.
- 5.7. Prepare a separate protective barrier film valve for each student and a place to dispose of it after the session.
- 5.8. Assign the group's working order: who performs compressions, who performs breaths, who keeps count of the rhythm. This reduces the time needed to change students and decreases the number of disinfections.

6. Operating Procedure

6.1. Checking for Signs of Life

- The student places two fingers on the side surface of the manikin's neck and locates the pulsation without compressing the artery.
- The exercise is performed in the same sequence as on a person: first, assessing the condition, then checking the pulse, and only after that — performing the resuscitation techniques.
- At this step, the teacher demonstrates the difference between the sensation of a present pulse and its absence: the pulse mechanism can be switched off.

6.2. Head Position Before a Breath

- The student positions the manikin's head so that the airway becomes patent, and only then performs the breath.
- This is precisely where it becomes clear why, without the correct head position, a breath does not produce a result: the chest does not rise.

6.3. Artificial Respiration

- The student performs the breath through an individual protective barrier film valve and observes the chest.
- Chest rise is the only indicator of breath effectiveness — used on this manikin to assess whether the technique was performed correctly.

- Excessive volume and too sharp a breath do not produce additional rise — this is worth pointing out to the group.

6.4. Chest Compressions

- The palms are placed one on top of the other and positioned at the marked point on the chest.
- The arms are kept straight, and compressions are performed vertically, using the weight of the body rather than the strength of the arms.
- The rhythm of the compressions and the full recoil of the chest between them are monitored: incomplete recoil reduces the value of the next compression.

6.5. Practicing in a cycle

- Techniques are combined into a "compression — breath" sequence. The ratio is set by the current rules for providing first aid; it is given by the teacher or instructor.
- The manikin reproduces the mechanics of the techniques, not the resuscitation protocol, so the sequence and number of cycles are determined by the session leader.
- Change students after disinfecting the removable parts and replacing the protective film.

6.6. Finishing the work

- Remove and disinfect the mouth and nose pieces, dry them laid out flat.
- Remove the batteries if the next session is not planned for the near future.
- Return the manikin's head to the neutral position and place the product in the shipping packaging.

7. Care, Maintenance and Troubleshooting

7.1. Disinfection and Cleaning

- At the end of the session, wipe the manikin with a damp cloth using a neutral detergent and wipe it dry.
- Disinfect the face and removable parts between students using products suitable for plastics.
- Do not use acetone, chlorine-based products, high-concentration alcohol solutions, or abrasive powders: the surface becomes brittle and changes color.
- Remove any water that gets into the openings immediately: place the manikin with the openings facing down until completely dry.
- Do not submerge the manikin in water or wash it under running water.

7.2. Replacement of removable parts and periodic inspection

- Keep the set of replacement parts separately from the manikin, in clean, closed packaging.
- Replace parts as they wear out; do not continue using a part with a crack, a tear, or a persistent odor.
- Inspect the chest surface and check the compression resistance before each session.

- Repair of the chest mechanism and the electronic part is performed only by an authorized service center.

7.3. Possible malfunctions and methods of their elimination

Symptom	Possible cause	User actions
The pulse on the carotid artery is not felt	Discharged or incorrectly installed batteries; the pulse mechanism is switched off	Replace the batteries observing polarity, check the position of the mechanism's switch
The chest does not rise during a breath	Incorrect head position; insufficient breath volume; loose fit of the removable mouth piece	Set the correct head position, check the fit and integrity of the mouth piece, repeat the breath
The chest does not return to its initial position	Compressions were performed at an angle or outside the marked point; wear of the internal mechanism	Stop the session and contact the supplier: the manikin cannot be used further
Compression resistance has disappeared or become uneven	The manikin was lying on a soft surface; the chest mechanism is damaged	Move the manikin onto a firm surface; if the resistance is not restored — contact the supplier
A removable part does not stay in place	The part is deformed or worn; the installation surface is damp	Replace the part from the kit, having first dried the installation area
The surface has become sticky or changed color	Treatment with an unsuitable agent — acetone, a chlorine-based product, or a high-concentration alcohol product	Discontinue use of this product; from now on use only products designed for plastics
Persistent odor in the removable parts after disinfection	The parts were installed while damp; material wear	Dry the parts laid out flat; if the odor persists, replace them

If the malfunction is not eliminated by the actions listed, stop using the product and contact the supplier.

8. Storage and Transportation Conditions

- Store the product in a dry, heated room at a temperature from +5 to +40 °C and relative humidity of no more than 80 %, without condensate.
- Keep the manikin in its shipping packaging, the head — in the neutral position; do not place foreign objects on the product.
- If the product will not be used for more than a month, remove the batteries.
- Protect the product from direct sunlight, heating appliances, and chemical reagents: polyvinyl chloride deforms when heated.
- Transport the product in its factory packaging by any type of enclosed transport, protecting it from impacts and compression.

- The storage period is unlimited provided that the stated conditions 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:	Cardiopulmonary resuscitation trainer
Product model:	LABOTRIX RESQ Q1
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