



INSTRUCTION MANUAL



Laboratory Equipment Pty Ltd

Laboratory Equipment Pty Ltd
email: sales@labec.com.au
Ph: 02 9560 2811 • Fax: 02 9560 6131
www.labec.com.au



USER MANUAL
Low-speed Table-top
Centrifuge L-450A

1st. Terms of safety using

User's better use it in accordance with the design of it; it may result in equipment damage or personal injury if there is any incorrect or inappropriate way when using the machine:

- Not used in accordance with design requirements;
- Operators and maintainers use it without training;
- Users change the contents of the design without authorization;
- Users don't pay attention or understand the rules of safe-using.



Every people who involving the use or maintenance of Low-speed centrifuge should read and understand the using way and rules of safe-using of this manual.

You must totally enforce the following rules to avoid accidents:

The "Manual" is part of accessories of "Low-speed table-top centrifuge", it must be put together with the machine for the operator to check. Low-speed centrifuge of general air-cooled is designed for clinical medicine, biology, chemistry, genetic engineering, immunology and so on. The density of the separated sample can not exceed 1.2g/cm^3 under the maximum speed, when the density of the sample exceeds 1.2g/cm^3 , the maximum speed of the rotor must be reduced accordingly.

When Low-speed centrifuge is running (separating the sample or the rotor is rotating), please make sure that nobody or any hazardous materials can be existed within 30cm away from centrifuge, and no materials block the vent of the centrifuge.

The centrifuge will injure the operator or other staff or there's damage on the centrifuge and separated sample inside if the user don't follow the following safety measures when operating the Low-speed Table-top centrifuge:

- The centrifuge can't be used in the environment of corrosion or there is possibility of explosion because the design of the centrifuge is neither anti-corrosion, nor is anti-explosion (proof);
- Do not use following materials in the centrifuge:
 - Flammable and explosive materials;
 - Strong chemical materials;
 - Toxic or radioactive.
- For the separation of corrosive substances and pathogenic micro-organisms cells, please take effective measures of seal in advance, and do the sterilization in time after separation. For more details, please check from "issues of repair and maintenance".
- The internal part of the centrifuge will be damaged and the mechanical strength of the rotor will be weakened when using it for separating corrosive materials. In this case, corrosive materials should be put in the protective container.

1.1 Notes of operation

- Please ensure that proper rotor are installed tighten before the running of the centrifuge (separating the samples)
- Don't open the door manually if the centrifuge is still running (rotor is turning) or the rotors don't stop to turn.
- The accessories of Low-speed centrifuge should be provided by Our company. For some general accessories, such as glass and plastic containers used for the separation should be confirmed to meet the requirements. It shall conform to requirement of the use of maximum turning speed and maximum centrifugal force of the corresponding rotor.

- Do not use centrifuges or separate the sample with the door is open.
- The replacement of mechanical accessories and electronic device of centrifuge should be implemented by designated person of Our company.
- When operators are using the centrifuge, they shall choose rotor with appropriate load and shall not use the rotor overload;
- Check rotor regularly. Stop to use it once there is obvious corrosion or obvious damaged signs on the rotor;
- After a period of using, Please do the maintenance according to the rules of "cleansing and disinfection".

2nd Operating instructions

2.1 Introduction of control panel and display interface

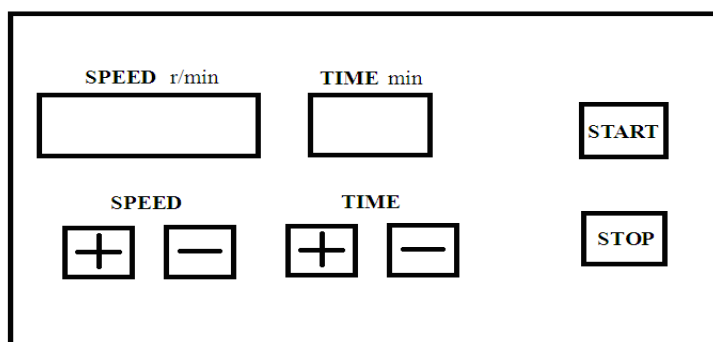


Figure1: schematic drawing of control panel

Introduction of Figure1, Function of control display panel:

SPEED r/min: Speed display

TIME min: Time display

+ - : Set speed /time

STOP: stop button

START: Start button

Door keys are located on the right side of the instrument. (radio button)

3rd Packing List

Packing list of Low-speed centrifuge of general air-cooled

Number	Name	Qty	Note
1	low-speed table-top centrifuge	1set	
2	power cord	1pc	
3	Angle rotor 20ml×8	1pc	
4	English service manual	1pc	



When you open the package, please check in time, if there's anything wrong, please kindly contact our company or authorized dealers in time.

4th Optional Accessories

If you need buy the optional auxiliary parts, please contact and ask manufacturer or our company or authorized dealers.

Rotor No. (Rotor)	Capacity (tubes x ml)	Maximum speed (r/min)	Maximum relative centrifugal force (×g)
#01 Angle rotor	12×5	4000	2155
#02 Angle rotor	8×15	4000	1700
#03 Angle rotor	12×10	4000	1700
#04 Angle rotor	8×20	4000	1700

Function/ Parameter	Technical Data
Environment of Use	<ul style="list-style-type: none"> ● House supply ● There isn't any vibration or airflow around which maybe effect the performance of the instrument. There isn't any conductive explosive dust or corrosive dust around ● Altitude: ≤2000m ● Relative humidity: ≤80%
Ambient Temperature	● +5° ~ +40°
Applicable voltage	● AC240V 50HZ
Setting Time range	● 0 ~ 99min
Maximum RPM	● 4000 r/min
Maximum relative centrifugal force	● 1700×g
Maximum capacity	● 20ml×8
Noise (maximum speed)	● ≤ 65dB(A)
Dimensions(machine)	● 300 mm (L) *270 mm (W) *210 mm (H)
Net Weight	● 8 kg
Dimensions (package)	● 340 mm (L) *330 mm (W) *250 mm (H)
Gross Weight	● 10 kg

5th Certificate of Compliance
Low-speed table-top centrifuge L-450A
Certificate of Compliance

Maximum rotate speed: 4000r/min

Maximum relative centrifugal force: 1700×g

Factory Number:

This product is qualified after examination. It can be sold in the market.

Inspection Date: