

# Operation Manual



BCBL-301

## Benchtop Low Speed Centrifuge

Thank you for Choosing Biolab products. Please read the "Operating Instructions" and "Warranty" before operating this unit to assure proper operation.

## **Safety Notices**

We appreciate your business with our Instrument. To prevent any potential accident, please operate centrifuges according to the following safety protocol.

1. Unplug the main power cord, when performing maintenance or when centrifuge is expected not being used for a long period of time.
2. Load the rotor with samples arranged symmetrically. Opposing tubes must be of equal weight. If necessary, use "water blank" tubes to balance sample tubes of unequal weight. Do not conclude that tubes are balanced by sight over volume. Use the pan balance provided in the centrifuge room for balancing tubes in rotors for the centrifuge.
3. Never exceed the maximum speed posted for the rotor!
4. Never use the rotor that appears damaged (e.g. O-rings missing, scratched, corroded, and cracked).

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## 01 Main specification and technical parameters:

Item	Description
Max speed	4000r/min
Max capacity	8×15ml
Max CRF	1880×g
Timing	0 ~ 99min
Noise	≤45dB ( A )
Power supply	220V 50HZ 2A
Dimensions	310*265*215
Weight	8KG

## 02 Available rotors

Rotor Number	Rotor type	Capacity	Max speed ( r/min )	Max RCF ( ×g )
31701	Angle rotor	8×15ml	4000	1800
31702	Angle rotor	6×15ml/10ml	4000	1880
31703	Angle rotor	12×5ml	4000	1540
31704	Angle rotor	12×7ml	4000	1540
31705	Angle rotor	8×10ml	4000	1800

## 03 Unpacking

Please check whether there are serious damages on the package as soon as you received the centrifuge, if so, please contact us directly, if not, please unpacking the package, take out the instruction manual, checking the components and accessories. If you found something missing, please tell us.

## 04 Installation

The centrifuge should be installed on a stable working table. Let its four rubber feet touch the even surface of the table and then insert one head of the power plug into the socket which mounted on the rear of the centrifuge. Insert the another head of the plug into the power supply socket.(Attention: the power supply socket must be connected with the earth in case of electric shocks)

## 05 Operation

- (1).Checking whether the round nut in the rotor is loose, if so, fasten them.
- (2).Prepare the tubes; put the test liquids into the tubes, checking whether they are in the same level with your eyes.
- (3).Load tubes on the tube rack symmetrically; otherwise it will be resulted in severe vibration in the process of centrifugation.
- (4).Close the lid, make sure it is locked
- (5).Set parameters

The time and speed will be showing on the panel, switches and buttons as the following figure :

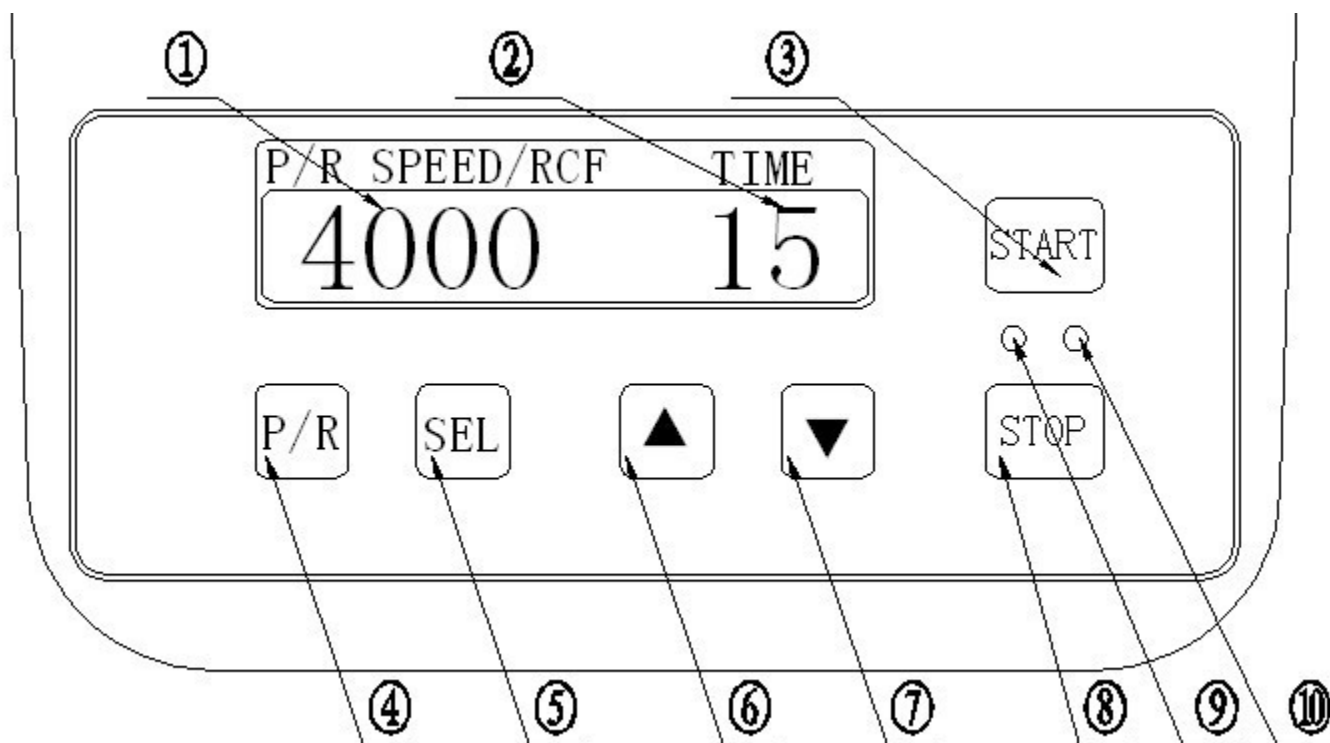


Figure legend ①RCF/RPM and rotors number ②time ③start ④rotors number selection ⑤parameters selection ⑥parameters up ⑦parameters down ⑧stop ⑨working and stop indicator

Plug in and turn on the switch · the time window and speed window in the panel will be brighten.

Pre-selection of the parameters:

①Set the rotor No.

Press P/R button, it shows rotor No..Press  $\Delta$  · rotor No. is adding and speed, rotor No. is reducing.

Circularly press the button SEL will respectively display SPEED, RCF, TIME, BRAKE.

②Set the speed

When speed window flash, press $\Delta$  speed selection range from 0rpm to maximum 4000rpm · press speed button  $\nabla$  speed will be down, choose the speed you prefer.

③Set the time

When time window flash, Press  $\Delta$  the time selection range from 0 minute to 99 minutes, then press  $\nabla$ . The time will be down ,set the time which you want.

④Set the brake system

Press SEL button · time window shows bX · and then with the up and down button to set the

brake system, there is 10 brakes from b0 to b9, b0 is the slowest in speed up and down, and b9 is the fast in speed up and down.

(6).Start the centrifuge

Press the start button, the start indicator will be brighten · the centrifuge starts to work · the speed window will show the speed ; the time window begin to count down, the speed will be up to what you pre-selected within 1-2 minutes.

(7).Stop the centrifuge

When the time window count down to 0 ( or press the stop button ) · stop indicator will be brighten · the speed will be down to 0, then the centrifuge will stop running. Open the lid, take out the tubes, centrifugation finished.

(8).Power off

Press the down side of the switch button · now the panel is cut off · but the whole machine is not power off, if you stop using the machine, you should take out the plug from the power supply socket.

## 06 Trouble shooting

(1) Press the up side of the switch button · the centrifuge doesn't work, please check the fuse in the socket mounted on the rear of the centrifuge · if it is damaged, please replace it with the 5A fuse. if not , then check the switch · if the above two places is in good condition, please contact us.

(2) make sure never ask the non-professional person to solve the electronic board problem.

### Warranty Policy

1. We have one –year warranty on our all products
2. After the machine fixed, our professional technician will file it and keep track of the usage of the machine.
3. We will pay attention to the feedback of the customers within 24 hours.
4. We only charge for the accessories on repairing the machine beyond the one-year warranty time.



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