

# **OPERATING INSTRUCTIONS FC5000-1C Benchtop Low Speed Centrifuge**

**PLEASE READ THE OPERATION MANUAN SERIOUSLY BEFORE USE.**

**ATTENTION:**

- 1) The centrifuge must use reliable earthing electric power.
- 2) Start to use after checking that the rotor and tubes are installed properly.
- 3) It is not allowed to open the lid when the machine is in operation, not allowed to touch the rotor and tube by hand when it is in operation, not allowed to brake by hand.

**1) Product & Model:**

FC5000-1C bench top low speed automatic centrifuge.

**2) Application:**

It is applicable to the experiments of analysis in the fields such as hospital, biology, medicine and agriculture. It's an ideal instrument for the hospital, labs to make qualitative analysis to serum, plasma, radio-immumty.

**3) Technical Data:**

Max.Speed:6000rpm

Max. RCF: 4745×g

Max. Capacity: 12×15ml

Timer Range: 0~99min

Motor: 45W Brushless Motor

Power: 220V 50Hz 5A

Weight: 22Kg

Dimension: 346×430×260mm

**4) Feature:**

It is controlled by microprocessor and driven by D.C. brushless motor, digital display the speed and time. It has the advantages of large capacity, low noise and steady performance.With the special resist-vibration, it can be automatic balance running.

The following rotors can be used for your choice:

Rotor No.	Max. Speed(rpm)	capacity	RCF( $\times$ g)
N0.1Angle Rotor	6000	12 $\times$ 15ml	4500
N0.2Angle Rotor	5000	6 $\times$ 50ml	4745
N0.3Angle Rotor	4000	18 $\times$ 15ml	2200
N0.4Angle Rotor	4000	24 $\times$ 10ml	2200
N0.5 Swing Rotor	4000	8 $\times$ 15ml	2300

### 5) Notice for installation

- 1)To be placed in solid platform, and to be supported by the four legs of the instrument.
- 2)To be connected to 220V 50Hz, with the ground wire for operator's safety.
- 3)Always be a ware of the possibility of contamination when using radioactive, toxic, or pathogenic materials. Take all necessary precautions.

## 6) Operation:

Operation Procedure is the following :

- 1) Turn on the power switch.
- 2) Press **STOP/LOCK** key to open the door in order to place the tube.
- 3) Pre-set the speed and running time(the speed and time can be reset during a run).
- 4) Press **START**, the machine starts to run.
- 5) The buzzer will be sound when the centrifuge stop running. Press **STOP/LOCK** to open the door .
- 6) If there is no change on the Speed & Time. the last running parameter will be remained , only press **START**
- 6) Turn off the power switch, when you finish working.

## 7、 Warranty:

- 1) For the main machine the warranty is valid for one year.
- 2) For the rotor of the centrifuge, the warranty is valid for three years.
- 3) We suggest the endures to replace the rotor after 3years use from the date delivery, otherwise we will not guarantee protection from accidents resulting from damage to the rotor.

## 8. Notice:

- 1>.Don't move the centrifuge while it is spinning.
- 2>.It shall be stopped immediately after the vibration occur.
- 3>. As the sample density  $1.2\text{g/cm}^2$ ,

the rotor Max.speed shall be as the following formula:

$$N_{\max} = \sqrt{\frac{1.2}{\rho}}$$

P——sample density

$N'_{\max}$  —— the rotor max. speed

- 4) If the power indicator doesn't light, to check the fuse.

## 9. The small globular switch for emergency sample recovery.

There is a small globular switch at the right corner of underside of

the centrifuge  which indicates for pulling it to open the door. If a power failure occurs while the rotor is spinning, to pull this small globular switch and the door will be opened for emergency sample recovery.

**FC5000-1C Bench-top Low-speed automatic Balance****Centrifuge****Shipping List**

Item	Description	Quant	Remark
1	<b>FC5000-1C unit</b>	1 set	
2	Angle Rotor	1pc	12x15ml
3	Plastic Cover	1 Piece	
4	Operating Instructions	1 set	
5	Q.C	1 Piece	