

## **1. Speed Display :**

This display shows the speed values during programming. It also indicates accelerating condition, braking condition, power failure condition, open lid condition and the condition that occurs when Start is pressed while the lid is open by the expressions Acc, br, E oFF, oPEn, cLoSE Lid, respectively. The error codes that occur in case of any failure condition are also shown on this display.

## **2. Time Display :**

This display shows the time during programming and the run.

## **3. Lid Key and Led :**

This key opens the lid if the led is on. It is active before starting the centrifugation and at the end of the centrifugation when the audible alarm sounds.

## **4. Set Key:**

This key is used to set the speed and time during programming and to check the RCF value during the operation.

## **5. Pulse Key:**

The motor increases to the maximum value and continues to spin on that speed as long as this key is pressed.

## **6. Value Increasing Key :**

This key is used to increase the parameter values during programming.

## **7. Start Key and Led:**

This key starts the centrifugation operation and the led turns on. The led turns off if the program is stopped manually or the lid is opened at the end of the program.

## **8. Value Decreasing Key :**

This key is used to decrease the parameter values during programming.

## **9. Stop key :**

This key is used to stop the operation manually.

## **3. INSTALLATION**

### **3.1. Lifting And Transport**

All lifting and transport must be carried out by using proper handling equipment. The instrument must be supported from underneath and never turned over.

### **3.2. Unpacking**

Remove the packing cardboard box and the second nylon packing around the centrifuge. The below written are provided with the instrument, please check them;

- 1 ea. user's manual
- 1 ea. power cable
- 1 ea. manual lid opening tool

### **3.3. Mains Supply**

The centrifuges require 230 V, 50 Hz.

Please make sure that the supplied mains matches the required power ratings.

**Always plug the centrifuges into correctly grounded sockets.**

**A supply fitted with a circuit breaker should be used for protection against indirect contact in case of an insulation fault.**

### **3.4. Environmental Conditions**

The centrifuges are designed to operate safely under the following conditions:

- Indoor use only
- Ambient temperature: 5 °C to 25 °C.
- Maximum relative humidity of 80% for temperature up to 22 °C.
- Maximum altitude: 2000 m.
- Temperature for maximum performance: 15 °C / 25 °C.

### **3.5. Positioning**

- Check that no damage has occurred during transport.
- Check that the positioning is suitable for users.
- Lift the centrifuge underneath and carry it to its place carefully. Check that the centrifuge is stable on its four pads.
- Leave sufficient free space on each side of the centrifuge.
- Make sure that the centrifuge does not do harm to nearby equipment.