

## Display & Control Panel

Max. RPM	4,000 rpm
Max. RCF	3,193 kg (Swing) 2,635 kg (Fixed angle)
Timer	< 100 min, Pulse continuous
ACC / DEC Ramps	5/6

Display Screen  
RPM / RCF / Time / Program / Rotor ID / ACC / DEC

**Cursor keys / Enter**  
Function selection (◀▶)  
Increase or decrease the values (▲▼)  
Save the values (↵)

**Program Save / Call**  
Saving / Calling up a program (Up to 10)

**Lid Open**

**Start / Stop / Pulse**

**Pulse**  
After reaching the set speed, the centrifugation is decelerated and stopped

### Setting Run Parameters (RPM / RCF / Time / ACC / DEC / Rotor ID)

Press the Enter button

Select a parameter to be changed (Press ◀ or ▶ button) + Up or down the values (Press ▲ or ▼ button)

Press the Enter button

RPM setting mode : RPM flashes  
RCF setting mode : RCF flashes  
Time setting mode : 00' 00" flashes

Rotor ID mode : Rotor flashes  
ACC / DEC setting mode : ACC / DEC flashes

### Saving / Calling Up a Program

Press the Program button

Select the program number (Press ▲ or ▼ button)

Press the Setup / Enter button

**Save** Select the program number → Press the Program button → Set the run parameters → Press the Enter button

**Call up** Select the program number → Press Setup / Enter button

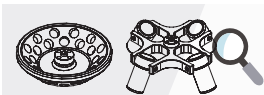
# Quick Guide

# Fleta 4

Cat. No. : FL-4

## Cautions For Use

### Before Operation



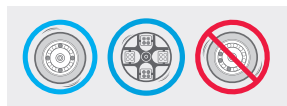
**Check the Accessories for Abnormalities**  
Check the rotor, buckets and tubes are free of scratch and crack before operation.



**Check the Rotor Locking**  
Check the rotor is firmly tightened onto the motor shaft.

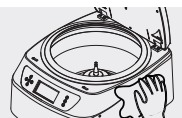


**Balancing the Centrifuge and Rotor**  
After relocating the device or loading the rotor, balance them by using a leveler. If necessary, level the device by adjusting the 'Leveling foot' on the bottom of the device.

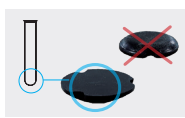


**Load Tubes Symmetrically**  
Load tubes symmetrically into the rotor with identical amount.

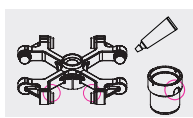
### After Operation



**Cleaning**  
Clean the chamber and rotor by wiping with a cloth soaked in mild detergent and dry completely.

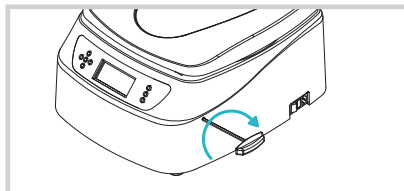


**Check the Cushion Rubbers**  
Check the cushion rubbers in the sleeves (AL15-12, AL15-24) before use. When reinserting, must insert it in the correct direction.



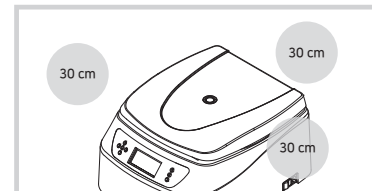
**Care of Swing-Out Rotor**  
Spread the grease lightly on the bucket where it contacts the rotor and the pivot.

## Maintenance



### Emergency Lid open

If the centrifuge lid cannot be opened, insert the provided T-wrench into the emergency release hole on the right side of the device and turn it clockwise. (Before activating emergency open, switch off the device and wait for the rotor to stop.)



### Allow a Safety Clearance of 30 cm

Allow a safety clearance of 30 cm around the centrifuge during operation.

## Electrical Safety

Pihnil Model: FL-4 Year: 2018 CE CCC RoHS	<b>Power Requirement</b>	<b>500VA</b>
	<b>Rated Voltage, Hz</b>	<b>220-240V 50/60-Hz</b>



### Grounded Outlet

Check the wall outlet is earth grounded, surge-protected and can supply enough power.



### Switch Off the Device

Switch off the device after use. Unplug the power plug before cleaning or unused for a long period of time.

### Check the Line Voltage

Connect the device to voltage sources which correspond to the electrical requirements on the label attached to the device.

## Rotor

### Fixed-angle Rotors

**AL15-12** 12 x 15 mL / Max. 4k (Rotor ID.3)  
**AL15-24** 24 x 15 mL / Max. 4k (Rotor ID.4)  
**AL50-10** 10 x 50 mL / Max. 4K (Rotor ID.5)

### Swing-out Rotors

**S50-6** 6 x 50 mL Round / Max. 4k (Rotor ID.2)  
**S85-4** 4 x 85 mL Round / Max. 4k (Rotor ID.1)

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HI-QG-Fleta 4(E)(Rev.1)