

# Quick Guide 624R

Max. RPM/RCF	Fixed-angle	6,000 rpm / 3,960 xg
	Swing-out	4,800 rpm / 3,888 xg
Program	100	
Temp. range	-10°C ~ 40°C	
Time control	Pulse, timed <10 hr or continuous (00:00)	
ACC/DEC	9 (Max 9) / 10 (Natural 0)	

## Display & Control

**Display**  
Status of RPM, RCF, Time, Temperature, ACC, DEC, Running, Lid open/close

**At Set Speed**  
On : Counts the time at set speed / Off : Counts the time from starting  
Touch more than 2 sec. : Repeat time of end alarm (time : 0 ~ 99, 0 : silent)

**Setting Speed**  
Touch once : RPM  
Touch twice : RCF

**Temp / Fast Cool**  
Fast cool: Quickly lowering the chamber and rotor temperatures.

**Program SAVE / CALL**  
Touch once : CALL  
Touch twice : SAVE (up to 100)

**Short Spin**

**Lid Open**

**End Alarm**  
Sound volume (level : 0 ~ 10, 0 : silent)

## Operation

**Setting Run Parameters**

[RPM / RCF / Time / Temp. / ACC / DEC / Program save, call]  
- Touch a parameter to be changed. - Set the desired values by touching the numeric keys. - Press the Enter.

**Pulse**

Set the desired run speed.  
- Touch the Start/Stop key more than 3 sec.

## Precautions for Use

**Before Use**

**Tighten the lid with the rotor**  
Fixed angle rotors must always be centrifuged with the rotor lid.

**Level the device**  
Check the instrument level by using the bubble leveler which is in the tool box.

---

**Balance the rotor**  
Load tubes symmetrically with identical weight.

Correct arrangement for Swing-out rotor

Correct arrangement for Angle rotor

---

**After Use**

**Cleaning and lubrication**

- Clean the centrifuge chamber and rotor with a cloth dampened with a mild detergent and dry completely.
- After cleaning, lubricate bucket grooves, pivots of swing-bucket rotors and threads of the angle rotors using the lubricant which is in the tool box.

**Keep the chamber dry**

Wipe up the moisture in the chamber with a dry cloth after use. Keep the lid open when not in use.

---

**Emergency lid open**

Wait for the rotor to stop before activating emergency.

- Remove the Emergency cap on the left side of the device.
- Insert the wrench into the hole and turn it clockwise.

**Empty the condensate**

Empty the condensate regularly by removing the drain cap on the left side of the device.

## Common error codes

If you continue to get below error messages, contact technical support team.  
For other error codes, refer to the operating manual supplied with the device.

Error code	Possible Causes	Actions
Error8	Imbalance error	Check weight-balances of samples.
Error9	Rotor ID or RPM sensor error	Check the rotor is firmly tightened.
Error12	Temperature sensor error	Wipe the temperature sensor with a soft cloth. (Temperature sensor is on the bottom of the chamber.)
Error20 ~ 27	Lid error	Check the lid latches for visible dirt.