

## Display & Control Panel

**Supra R22** Max. RPM : 22,000 rpm  
Max. RCF : 52,001 xg

**Supra R12** Max. RPM : 12,000 rpm  
Max. RCF : 22,265 xg

**Display Screen**  
Status of RPM / RCF / Time / Temperature / Rotor ID / ACC / DEC / Program

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

**Setting Time**  
Up to < 100 hr  
Continuous run (00:00)

**Setting Temperature**  
Setting temperature (-10°C ~ 40°C)  
Setting temp. limit

**View Settings**  
Verifying the setting parameters during centrifugation

**Setting ACC / DEC Rate**  
ACC (0 ~ 9 steps, Max.9)  
DEC (0 ~ 9 steps, Natural DEC.0)

**Setting the Rotor ID manually**  
When rotor id is not identified automatically, enter the rotor ID. manually

**Short Spin**

**Program Save / Call**  
Saving a program (up to 100)  
Calling up a program

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

Press a parameter to be changed

Enter the desired values on the keypad

Press the Enter button

### Saving / Calling Up a Program

Press the Save or call button

Enter the desired program number on the keypad

Press the Enter button

### Pulse

Enter the desired speed (See 'Setting Run Parameters')

Press and hold the Pulse button. (When the Pulse button is released, the rotor begins decelerating.)

### Setting Temp. Limit

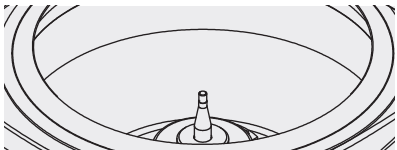
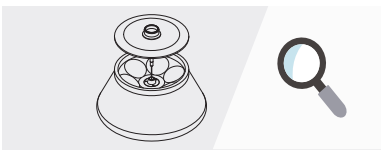
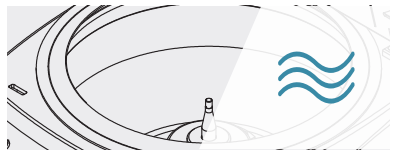
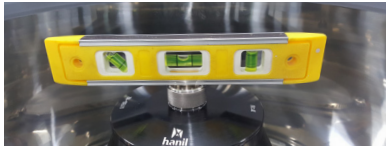
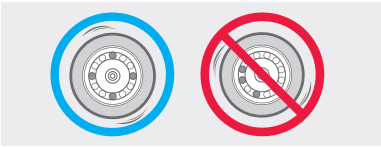
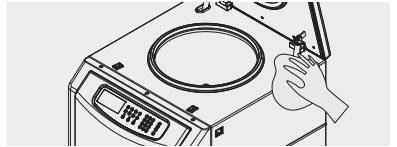
Press the Temp. limit button

Enter the desired temperature range on the keypad

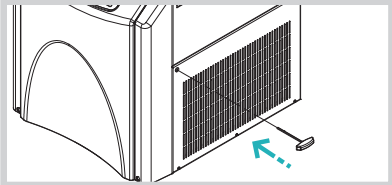
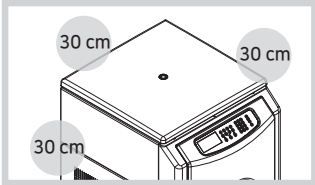
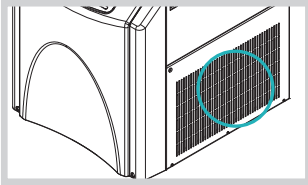
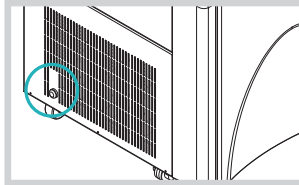
Press the Enter button

Temperature range that stops operation when the temperature is lower or higher than the set temperature.





## Cautions for Use

Before Operation		After Operation
 <p><b>Check the Chamber &amp; Accessor</b> Inspect the rotor, chamber, rotor &amp; accessories for foreign objects.</p>	 <p><b>Check the Accessories for Abnormalities</b> Check the rotor, buckets and tubes are free of scratch and crack before operation.</p>	 <p><b>Keep the Chamber Dry</b> Wipe up the moisture in the chamber with a dry cloth after use. Keep the lid open when not in use.</p>
 <p><b>Balancing the Centrifuge and Rotor</b> 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.</p>	 <p><b>Load Tubes Symmetrically</b> Load tubes symmetrically into the rotor with identical amount.</p>	 <p><b>Cleaning</b> Clean the chamber and rotor by wiping with a cloth soaked in mild detergent and dry completely.</p>

## Maintenance

 <p><b>Emergency Lid Open</b> 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 press it. (Before activating emergency open, switch off the device and wait for the rotor to stop.)</p>	 <p><b>Allow a Safety Clearance of 30 cm</b> Allow a safety clearance of 30 cm around the centrifuge during operation.</p>	 <p><b>Remove Dust</b> Remove any dust from the ventilation slits on the right side of the device.</p>	 <p><b>Empty the Condensation Water</b> Empty the condensation water regularly by removing the drain cap on the left side of the device.</p>
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## Electrical safety

 <p><b>Check the Line Voltage</b> Connect the device to voltage sources, which correspond to the electrical requirements on the label attached to the device.</p>	 <p><b>Grounded Outlet</b> Check the wall outlet is earth-grounded, surge-protected and can supply enough power.</p>	 <p><b>Power Connection</b> Connect the power cable to the distribution box, or install the plug and socket that are packed with the device.</p>	 <p><b>Switch Off the Device</b> Switch off the device after use. Unplug the power plug before cleaning or unused for a long period of time.</p>
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## Rotors

Supra R22		Supra R12	
<b>A2.0-36</b>	36 x 1.5/2.0 mL / Max. 18k	<b>A50-8</b>	8 x 50 mL / Max. 20k
<b>A10-12</b>	12 x 10 mL / Max. 22k	<b>A85-6</b>	6 x 85 mL / Max. 20k
<b>A15S-12</b>	12x 15 mL / Max. 22k	<b>A250-6</b>	6 x 250 mL / Max. 12k
<b>A15c-12</b>	12 x 15 mL conical / Max. 17k	<b>A500-6</b>	6 x 500 mL / Max. 9k
<b>A50-6</b>	6 x 50 mL / Max. 22k	<b>A1000-4</b>	4 x 1,000 mL / Max. 8k
<b>A50c-6</b>	6 x 50 mL conical / Max. 17k		
		<b>A250-6</b>	6 x 250 mL / Max. 12k
		<b>A500-6</b>	6 x 500 mL / Max. 10k
		<b>A1000-4</b>	4 x 1,000 mL / Max. 8k
		<b>A1000-6</b>	6 x 1,000 mL / Max. 7k