

## Display & Control Panel

<b>Component R12</b>	Max. RPM : 4,500 rpm Max. RCF : 6,491 xg
<b>Component R6</b>	Max. RPM : 5,000 rpm Max. RCF : 7,261 xg

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

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

**Setting Temperature**  
Setting temperature -10 to 40°C (R12) / -20 to 40°C (R6)  
Setting temp. limit

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

**Setting RCF**  
xg

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

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

**Setting the Rotor ID manually**  
Enter the rotor ID. manually, when rotor id is not identified automatically

Buttons: Start, Stop, Lid Open

### 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

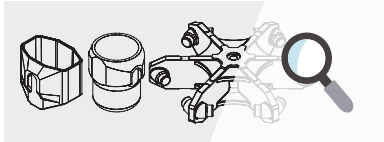


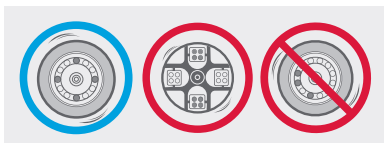
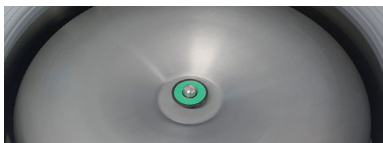

Press the Save or call button → Enter the desired program number on the keypad → Press the Enter button

### Setting Temp. Limit

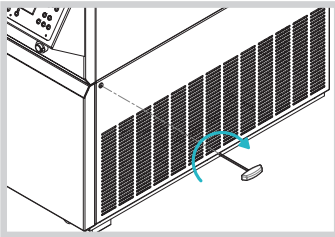
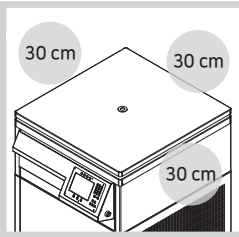
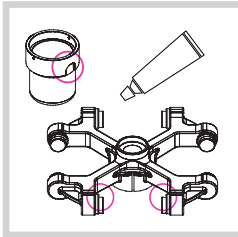
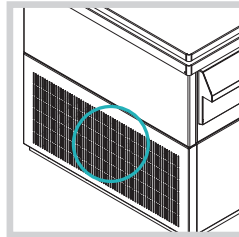
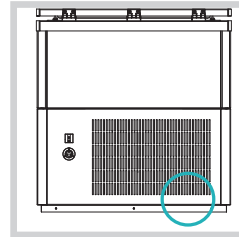
Temperature range that stops operation when the temperature is lower or higher than the set temperature.

Press the Temp. limit button → Enter the desired temperature range on the keypad → Press the Enter button

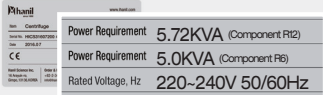



## Cautions for Use

Before Operation		After Operation
 <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>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>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>Load Tubes Symmetrically</b> Load tubes symmetrically into the rotor with identical amount.</p>	 <p><b>Check the Lid</b> Place the lid on the wind shield rotor before centrifugation.</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 and press it until the lid is opened. (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>Maintenance of Swing-Out Rotor</b> Spread the grease lightly on the bucket where it contacts the rotor and the pivot.</p>	 <p><b>Remove Dust</b> Remove any dust regularly from the ventilation slits on the left side of the device.</p>	 <p><b>Empty the Condensation Water</b> There is a drain hose at the bottom of the device. The condensation water is automatically drained through the hose. Check and remove it regularly.</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

**Component R12**  
WS2400-6 6 x 2,400 mL / Max. 4.5k

**Component R6**  
WS1000-6 6 x 1,000 mL / Max. 5k