

Display & Control Panel

Max. RPM : 15,000 rpm
Max. RCF : 26,664 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

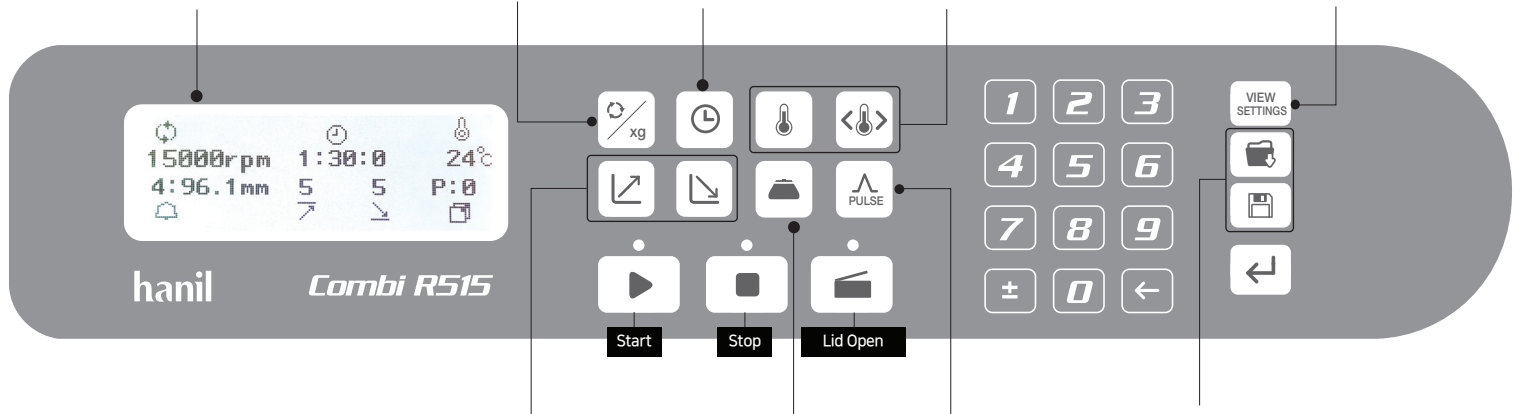
Up to < 100 hr
Continuous run (00:00)

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 Run

Program Save / Call

Saving a program (up to 100)
Calling up a program manually

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

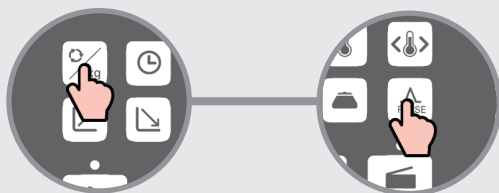


Press the Save or call button

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

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

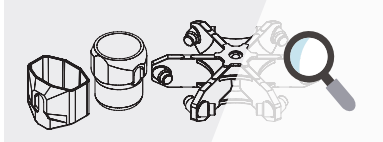

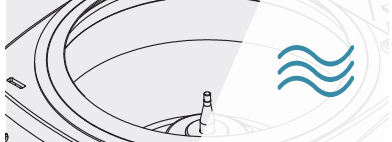

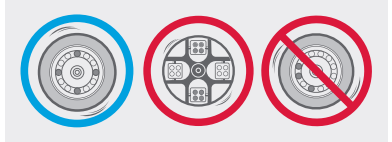
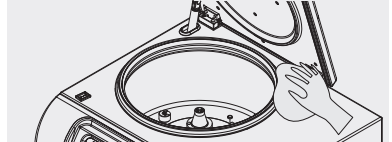


Press the Temp. limit button

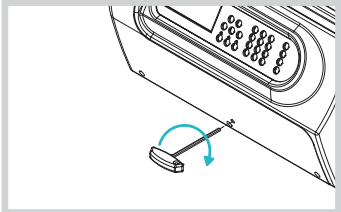
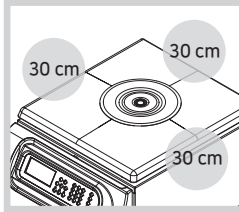
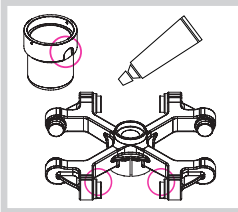
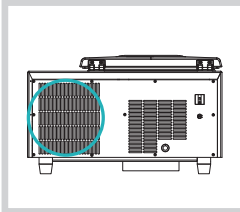
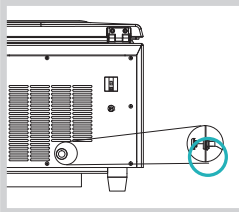
Enter the desired temperature range on the keypad

Press the Enter button

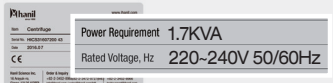


Cautions for Use

Before Operation		After Operation
 <p>Check the Accessories for Abnormalities Check the rotor, buckets and tubes are free of scratch and crack before operation.</p>	 <p>Check the Rotor Locking Check the rotor is firmly tightened onto the motor shaft.</p>	 <p>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.</p>
 <p>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.</p>	 <p>Load Tubes Symmetrically Load tubes symmetrically into the rotor with identical amount.</p>	 <p>Cleaning Clean the chamber and rotor by wiping with a cloth soaked in mild detergent and dry completely.</p>

Maintenance

 <p>Emergency Lid Open If the centrifuge lid cannot be opened, insert the provided T-wrench into the emergency release hole in the front of the device and turn it clockwise. (Before activating emergency open, switch off the device and wait for the rotor to stop.)</p>	 <p>Allow a Safety Clearance of 30 cm Allow a safety clearance of 30 cm around the centrifuge during operation.</p>	 <p>Maintenance of Swing-Out Rotor Spread the grease lightly on the bucket where it contacts the rotor and the pivot.</p>	 <p>Remove Dust Remove any dust regularly from the ventilation slits on the back side of the device.</p>	 <p>Empty the Condensation Water Empty the condensation water regularly by removing the drain cap on the back side of the device.</p>
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Electrical Safety

 <p>Check the Line Voltage Connect the device to voltage sources, which correspond to the electrical requirements on the label attached to the device.</p>	 <p>Grounded Outlet Check the wall outlet is earth-grounded, surge-protected and can supply enough power.</p>	 <p>Switch Off the Device 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

Fixed-angle Rotors

A0.2-48	48 x 0.2 mL / Max. 12.5K
A2.0-24	24 x 1.5/2.0 mL / Max. 15k
A2.0-36	36 x 1.5/2.0 mL / Max. 14k
A10-12	12 x 10 mL / Max. 15k
A15-12	12 x 15 mL / Max. 15k
A15c-12	12 x 15 mL conical / Max. 15k

Swing-out Rotors

S750-4	4 x 750 mL / Max. 4k
S500-4	4 x 500 mL / Max. 4.5k

A50-6	6 x 50 mL / Max. 15k
A50c-6	6 x 50 mL conical / Max. 15k
A50-8	8 x 50 mL / Max. 15k
A85-6	6 x 85 mL / Max. 15k
A250-6	6 x 250 mL / Max. 8k