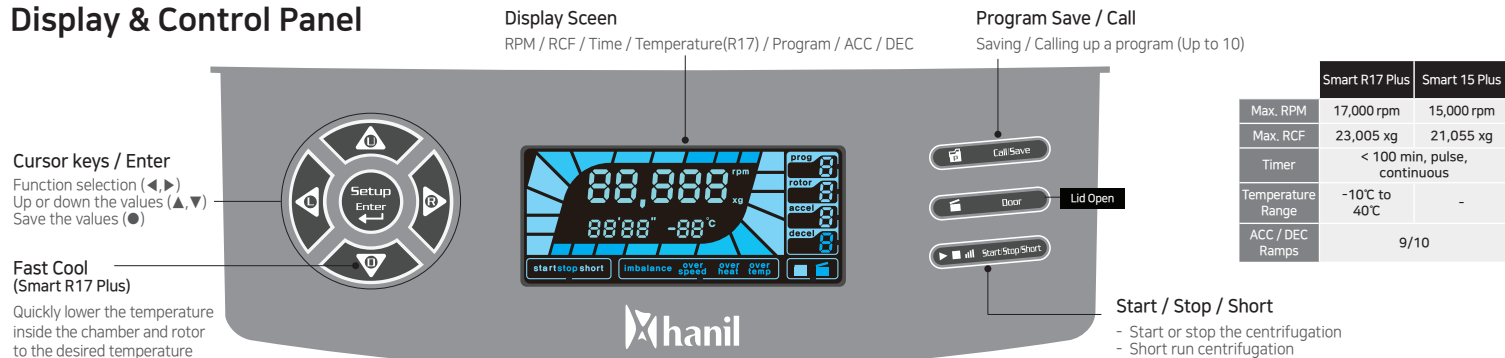


Display & Control Panel



Setting Run Parameters

(RPM / RCF / Time / Temperature (R17) / ACC / DEC)



Press the Setup / Enter button

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

Press the Setup / Enter button

RPM setting mode : RPM flashes
RCF setting mode : RCF flashes
Time setting mode : 00' 00" flashes
Temperature setting mode : 00°C flashes
ACC/DEC setting mode : Accel/Decel flashes

Saving / Calling up a Program



Press the Call / Save button

Select the program number (Press the ▲ or ▼ button)

Press the Setup / Enter button

Save Select the program number → Press the Enter button → Set the parameters → Press the Setup / Enter button

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

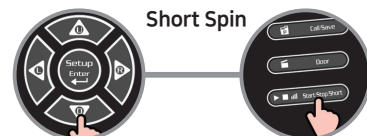
Fast Cool (Smart R17 Plus)



Set the desired temperature (see 'Setting Run Parameters')

Press the Fast cool button more than 2 sec.

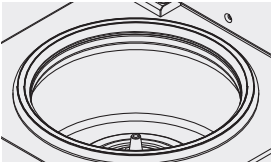
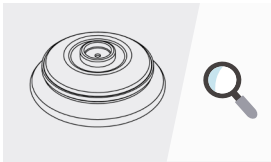
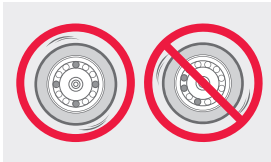

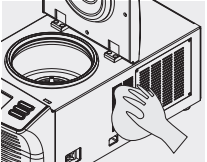
Short Spin



Set the desired Speed (see 'Setting Run Parameters')

Press the short button more than 2 sec.

Cautions For Use

| Before Operation | | | After Operation |
|---|--|---|---|
|  <p>Check the Chamber & Accessories Inspect the chamber, rotor and accessories for foreign objects.</p> |  <p>Check the Accessories for Abnormalities Check the rotor, buckets and tubes are free of scratch and crack before operation.</p> |  <p>Check the Balance Load tubes symmetrically with identical amount.</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>Cleaning Clean the centrifuge chamber and rotor by wiping with a cloth soaked in mild detergent and dry completely.</p> |

Maintenance

| | | | |
|--|---|--|---|
|  |  |  |  |
|--|---|--|---|

Emergency Lid Open

If the centrifuge lid cannot be opened, insert the 'Emergency release tool' into the emergency release hole on the left 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.

Remove Dust

Remove any dust from the ventilation slits on the right side of the device. (Smart R17 plus)

Empty the Condensation Water

Empty the condensation water regularly by removing the drain cap at the bottom right of the device. (Smart R17 plus)

Electrical Safety

| | |
|-------------------|-------------------|
| Power Requirement | 700VA (Smart R17) |
| Power Requirement | 500VA (Smart 15) |
| Rated Voltage, Hz | 220-240V 50/60Hz |

Check the Line Voltage

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



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.

Rotor

A0.2M-32 32 x 0.2 mL / Max. 12.5K (Rotor ID.2)

A2.0M-18 18 x 1.5/2.0 mL / Max. 17K (R17), 15k (15) (Rotor ID.3)

A2.0M-24/A2.0MP-24 24 x 1.5/2.0 mL / Max. 15K (Rotor ID.1)