



Display & Control Panel

- Setting Speed**
Touch a part of [SPEED].
- Setting ACC / DEC**
Touch a part of [ACC] or [DEC]
ACC (1 ~ 9 / Max. 9)
DEC (0 ~ 9 / Natural DEC 0)
- Rotor**
Show the Cat. No. of coupled rotor.
Touch the rotor name to check rotor list which can be used with the centrifuge.
- Menu**
Touch a part of [MENU] to set program, multi steps and check history.

Date and Time
21 Aug 17 04:50 pm

Information
Touch a part of [i] to check main/display board version, brand and model name.

Settings
Touch a part of [gear] to set volume, touch calibration, clock and password.

Setting Time and At Set Speed
Touch a part of [TIME].
To 99 hr. 59 min. 59 sec. or Continuous (00:00:00)
At Set Speed ON / OFF
ON : At Set Speed / OFF : Normal

Actual Temperature

Setting Temperature
Touch a part of [TEMP]. -20°C to 40°C

Fast Cool
Touch a part of [FAST COOL] for fast temp function.

Start / Stop
Start / Stop operation

Open Door
Touch a part of [OPEN DOOR] to open the lid of centrifuge.

Actual Status
During "RUNNING" period, the actual speed (RPM) with g-force and remaining time are shown numerically and graphically.

Operation

Cat. No. GZ-2236R

Function Selection
Touch a parameter to be change.

Fast Cool (Quick Temperature Down)
Touch [FAST COOL] button.

Multi Steps (Shift programming function)
Touch [MENU] and then touch [MULTI STEP].
Operating conditions can be linked together in a program memory and operate sequentially as a single run.

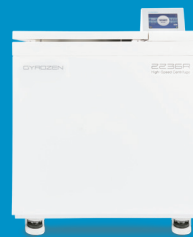
For additional steps up to 5 steps, touch [+] and then set the parameters for the step. For deletion, touch [-].

PROG Save
Touch [MENU] and then touch [SAVE PROG].
Enter the name of protocol, user and password and then touch [OK].

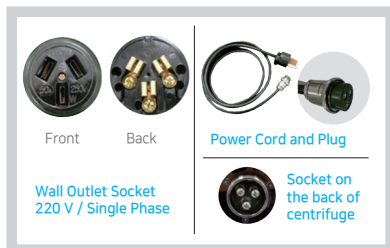
PROG Call
Touch [MENU] and then touch [CALL PROG].
Select the call program and then touch [OK].

Start
Touch [START] button.

Stop
Touch [STOP] button.



Precautions for Use



Electricity requirement

The 2236R requires 4K VA for optimal operation. Therefore, should secure sufficient power inflow in single phase current. The supplied Power Cord and Plug should make proper current connection with the supplied Wall Outlet Socket.



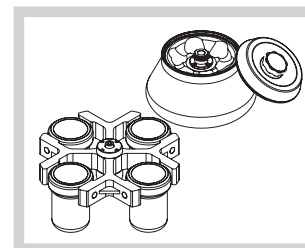
Balance for centrifuge & rotor

When centrifuge is installed, check the horizontality by a Bubble Leveler. Try to locate all bubbles in the center of the Bubble Leveler with rotating the red gear which is in the casters of the centrifuge.



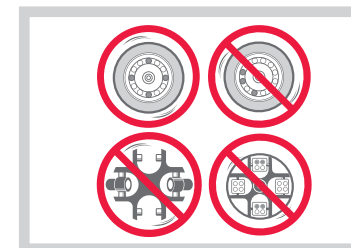
Connection of drainage tubing

The valve-type drainage tubing supplied to deplete unnecessarily condensed water from the chamber must be connected to the centrifuge and closed completely before starting operation. The valve closure is important for the efficient refrigeration. Connect the two supplied Drain V/V, and then close the valve. Connect the hose to the joint hole at the left bottom of the centrifuge.



Checking accessories for damage

Inspect the rotor and accessories for damage before each use. Discontinue use and replace it if damaged.



Balancing the rotor

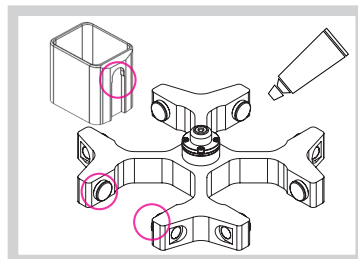
Load the sample symmetrically.

Maintenance Tips



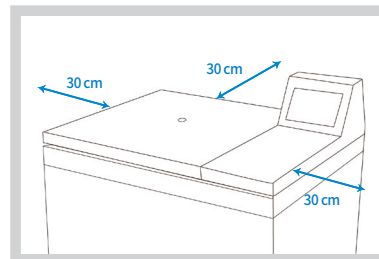
Take care of the heavy rotors and keep the lid open after every use

GRF-L-1000-6, GRF-L-1000-4 and GRF-L-500-6 are very heavy, so hold the lifting handle of the rotors well and carefully put the rotor in the chamber of 2236R. Take the rotor out after use and clean the shaft with the dry soft cloth. Keep the centrifuge dry for prolonged durability.



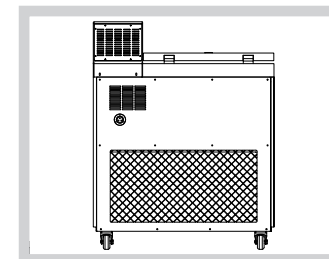
Lubricate the contact area

Clean rotor pivots and bucket grooves. Lubricate them by coating the grease sometimes to swing the buckets enough.



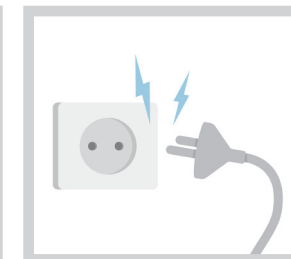
Secure a safety zone or 30 cm around centrifuge

Position the centrifuge with enough space (30 cm) on each side of centrifuge to ensure proper air circulation and safety zone.



Check ventilation slits regularly

Make sure that there is no dirt/dust on the ventilation slits of the device, and remove it if any.



Shut down power after operation

Switch off the device and disconnect the power plug after using the centrifuge.