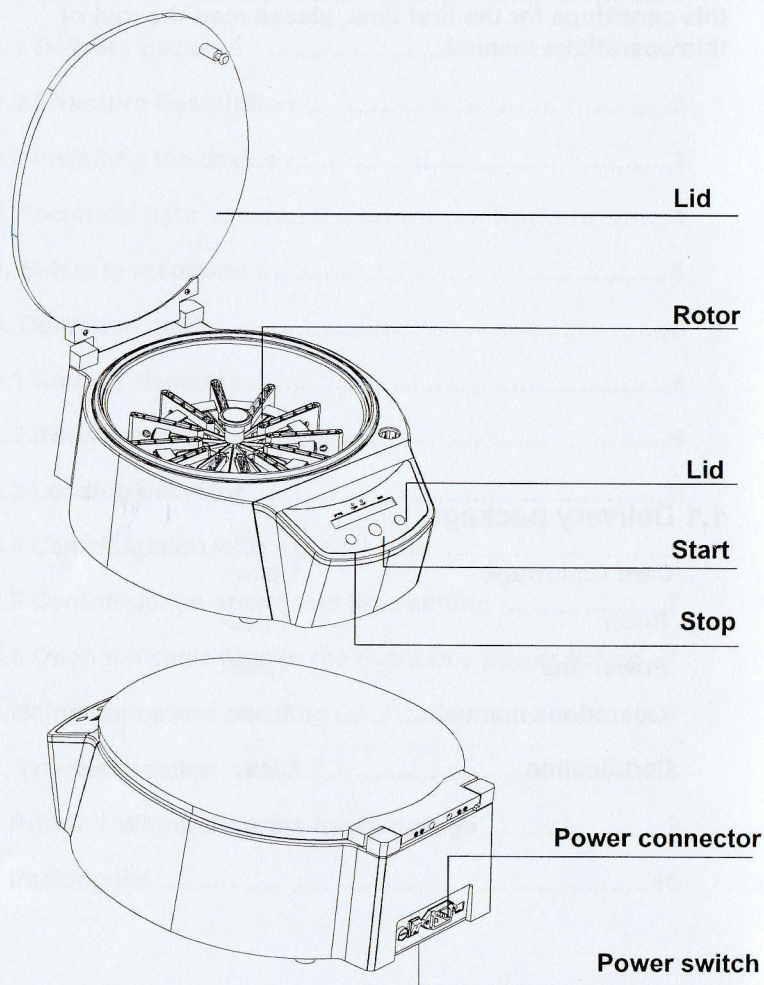


1.2 Structure Description

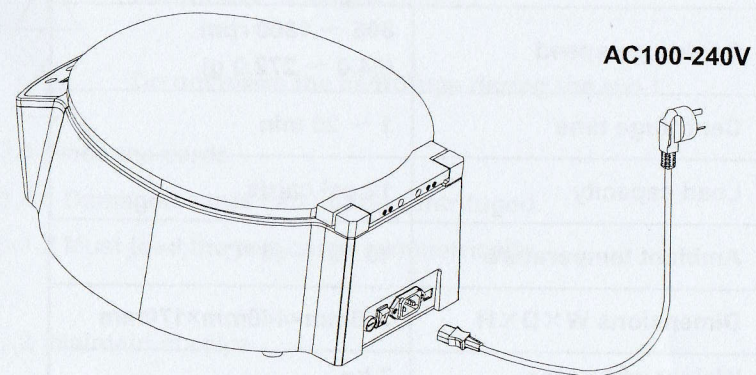


1.3 Installing the device

1.3.1 Place the centrifuge onto a level , horizontal surface.

Open the lid, take out the foam for delivery .

1.3.2 Insert the column connector of the power line to power connector of the device ,and insert another connector of the power line to mains power supply.



1.3.3 A safety distance of 30 cm should be observed around the centrifuge during operation. No objects which could cause additional damage in the event of a centrifuge crash should be positioned in this space.

1.3.4 Power on the main switch. The centrifuge is ready to operate when the display becomes visible. Place the rotor onto the rotor axle .

2 Technical data

Model	TD2-12
Power supply	AC100-240 V 50-60Hz
Power	50 W
Centrifuge speed	800 ~ 1800 rpm (54.0 ~ 272.0 g)
Centrifuge time	1 ~ 20 min
Load capacity	12 gel cards
Ambient temperature	15 °C ~ 40 °C
Dimensions W×D×H	340mm×440mm×170mm
Weight with rotor	7 kg

3 Safety precautions



If the centrifuge makes unusual noises when started, the rotor is not fastened correctly. Switch the device off immediately by pressing "STOP" key.



Do not use damaged rotors !



Do not move the centrifuge during the run !

3.1 Place the cards

3.1.1 Damaged cards can not be centrifuged.

3.1.2 Must load the test cards symmetrically.

3.2 Maintain of rotor

3.2.1 Even slight scratches and tears of the rotor can lead to serious internal material damage

3.2.2 Avoid damage caused by aggressive chemicals, including among others: strong and weak alkali, strong acids.

3.2.3 In the event of contamination caused by aggressive agents, The rotor must be cleaned immediately using a neutral cleaning liquid.

4. Operation guide

4.1 Control elements

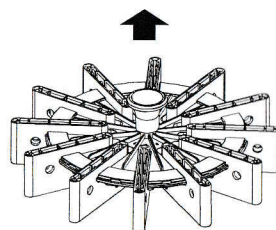
START-----for start centrifugation

STOP----- for stop centrifugation

LID-----to open the lid

4.2 Rotor insertion and removal

Fit the rotor onto the crossed linker of the motor, the crossed linker will connect the rotor by magnetic force .Pull away the rotor from the motor. Before each start, check that the rotor is firmly tightened !



4.3 Loading the rotor

Place the Gel cards in such a way , put the Gel cards in the card holder as shown by Fig – c. And rotor must always be loaded symmetrically

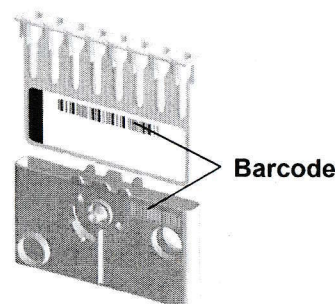


Fig - c

4.4 Centrifugation with a preset time

4.4.1 Turn on the mains switch, pressing “Lid” to open the lid, load the rotor symmetrically. Close the centrifuge lid, make sure the lid is locked by pressing on it by your hand. (The lid will be locked totally after you hear a sound of “da”).

4.4.2 Pressing “START” to start the run . Pressing the “STOP” to end the run prematurely. The remaining run time appears in the display.

After the run , the lid lock of centrifuge opens automatically, And buzzer alarms “du du du” .

4.5 Centrifugation speed and time setting

4.5.1 Speed and time setting

First of all, press and hold the “lid” key, then press “stop” key; the machine comes to the setting interface, at this time the speed and time can be set. The cursor turns out under the speed figure. In the display, the sign “ P-1 ” is first speed and first time. Press “stop” to move the cursor to switch from the first speed and time to the second speed and time. The sign “ P-2 ” means the second speed and time.

P-1	900 rpm	02:00
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First speed and time

P-2	1500 rpm	05:00
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Second speed and time

At the setting interface, in order to change speed and time, press “stop” to move into the value which is needed to set. Press “start” to increase the set value, and press “Lid” to reduce the set value. After 3sec, the cursor disappears, and the system will accept the new setting values. The speed can be set from 800rpm to 1800rpm, and the time can be set from 1min to 20min.

4.5.2 Switching to the rcf display

Pressing “STOP” key for 2 seconds continuously , the display switches from rpm to rcf. Also pressing “STOP” key continuously again, the display switches from rcf to rpm.

4.6 Open the centrifuge in the event of a power failure

when centrifuge running, the electricity supply cut unexpectedly, and the lid can not be open, please operate as following. Turn off the switch, pull out the power plug, wait till the rotor stop totally. Lift front right parts of the instrument, find the lock rod on the bottom, (see picture Fig-a), turn the rod to left side, the lid lock will be open after a sound of “pa...”, (see picture Fig-b) .

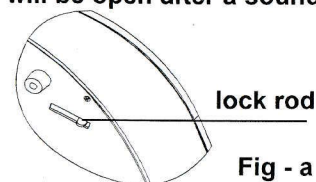


Fig - a

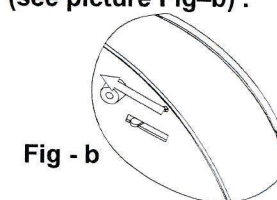


Fig - b