



MICRO CENTRIFUGE

BCMR-103 OPERATING MANUAL

1. Technical Parameters

Max speed: 15 000 rpm Max RCF: 21 633 Xg

2. Operational program

(Please read the instruction manual carefully first, this Operational Program is just a simple guidance for the one whom is familiar with the instruction manual).

- 1) Connection the machine to the 200-240 V power, switch on the power switch at the right side of the machine.
- 2) Tap the icon "Door" on the "Home" screen to open the lid (clean the centrifuge chamber).
- 3) Install the desired rotor as the instruction manual described, pre-cooling the rotor (if required) and set the desired parameters the experiment required as the instruction manual described.
- 4) Load the centrifuge tubes with equal volume solutions then load the rotor evenly as the instruction manual described. The loaded centrifuge tubes must be opposite each other.
- 5) Close the lid and start centrifugation run.



Always ensure the rotor has been securely fastened on the spindle before each run.



Always ensure the set speed for the rotor you are going to run do not exceed its max speed allowed before each run.



Always balance the samples before each run. Imbalanced running is strictly prohibited. There is serious accident might occur due to the imbalance run. Please make sure the rotor been evenly loaded at all times. This is the most basic criterion also the most important criterion for operate a centrifuge. The user should always obey this criterion.



Please observing if the centrifuge can work properly after you tapped the icon "Run" to start the centrifugation run, tap the icon "Stop" to interrupt the run if there is any abnormal phenomenon, such as the abnormal noise. Checking where is the problem if it exist and eliminate it, then start the centrifugation run again.

6) After the centrifugation run finished, tap the icon "Door" to unlock and open the lid, take out the centrifuge tubes / bottles.

7) Clean the centrifuge chamber after every use. Switch off the machine when you do not use the machine.

3. Cautions!

- 1) . This centrifuge must be connected with three core socket which connects with earth wire.
- 2) . The lid can only be opened when the rotor is standstill.
- 3) . To keep the motor do not to be wet by the condensate water or by the test solution, please



Don't fill too much test solution in the each test tube. For fixed-angle rotors, the solution in the test tube should not exceed 75% of the nominal capacity as usual unless you can make sure the test tube / bottle can be 100% sealed.



Don't open the lid for a long time while the machine is power on, otherwise the ice in the centrifuge chamber will change into condensate water later and it may wet the motor.



If the test solution was spilled into the centrifuge chamber, dry it with soft cotton cloth immediately.



Clean the centrifuge chamber after every use. Switch off the machine and dry the centrifuge chamber with soft cotton cloth when you do not use the machine in the next few hours / days, then keep the lid open, dry the centrifuge chamber in air.

- 4). Waiting for at least 5 minutes after switch off before switch on the machine again to avoid damage the compressor of the machine.
- 5). The new operators should read the instruction manual carefully and consult the principal of the laboratory when they are first time to operate this instrument, only when them become skilled then they can operate the machine independently.
- 6). Register the usage record every time, clean the machine and keep it dry after every use.
- 7). Report the abnormal phenomenon to the principal of the laboratory once it happens, so that the machine can be maintain timely.



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