TG16A-WS
High Speed Centrifuge

User's Manual

Madell Technology Corp.
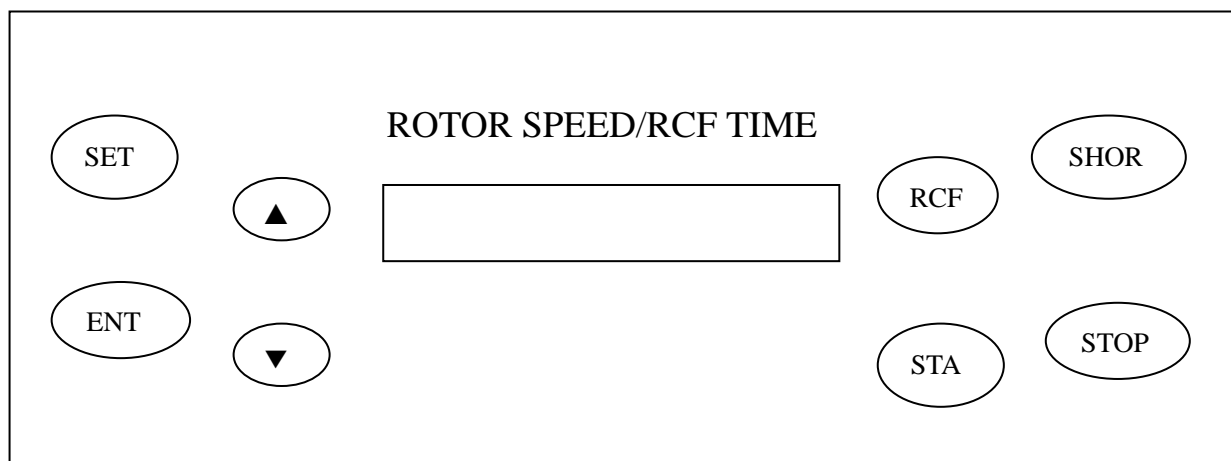
http://www.madelltech.com

Technical Specifications:

Max Speed	16000r/min
Max RCF	17800×g
Timer Range	0-99 min
Power Supply	AC110V 50Hz 5A
Dimensions	230×310×240mm(L×W×H)
Weight	15kg

Rotor specifications:

Table I

Rotor No.	Volume（ml×tube）	Max Speed（r/min）	Max RCF（×g）
1	1.5×12	16000	17800
2	5×8	13000	11400
3	1.5×24	13200	16110

Control Panel:

Control Buttons and Display:

SET: Setup

ENT: Enter

▲:   Up

▼:   Down

RCF: Centrifugal force Input

SHORT: instantaneous short run

START: Start

STOP: Stop / Door open

ROTOR: Number of Rotor

SPEED: the digital display window shows the motor speed; it displays the RCF value if the RCF button is pressed.

TIME: Remaining time

Installation

　　1. Place the centrifuge on a flat and stable table.

　　2. Plug the power supply into a wall outlet.

　　3. Do not use it in an environment with magnetic field disturbance and caustic gas.

Operations:

　　1. Connect the power

　　2. Turn the power switch on

　　3. Open the lid: press the STOP button for ten seconds with one hand and press and raise the lid with the other hand (the electronic door lock has 5 seconds delay).

　　4. Sample tube: the sample tubes should be less than 90% full. Arrange the tubes symmetrically to keep balance. Close the door.

　　5. Setup the Rotor Number, the speed, the RCF and Operating Time as following:

Setup example:

Rotor No.	speed r/min	Time (min)
1	10000	15

　　Steps:

　　a. Set the rotor number:　Press "SET" → press "▲" or "▼", the cursor blinks in the digital display under "ROTOR"(only one digit blinks) →chose No. 1→press ENTER

　　b. Set the speed: Press "SET" →press "▲" or "▼", the cursor blinks in the digital display under "SPEED/RCF" (five digits blink) →set "10000"→press ENTER

　　c. Set the time: Press "SET" →press "▲" or "▼", the cursor blinks in the digital display under "TIME"(two digits blink) →set "15"→press ENTER

　　The digital display looks like the following at this time:

1	10000	15

　　d. Set the RCF: Press "RCF" →press "▲" or "▼" (chose the speed you need)→ press ENTER.

　　e.（SHORT）if instantaneous run is needed, press "SHORT"

　　f. If "START" is pressed at this time, the centrifuge should start. (press "STOP" to stop it). The centrifuge will stop when the set time is up. Wait till the speed reaches zero before opening the lid and taking out the sample tubes.

　　g. Press the power button to turn it off.

Notice

　　1. The unit is equipped with an electronic lock. The lid can not be opened if it is not turned on. The lid keeps closed if the power supply is off during running. Pull the white string to open the lid.

　　2. Do not move the machine when it is working.

3. The rotor should be cleaned and placed in an dry environment if not used for a long time.

4. Contact us if the machine does not work properly. Do not open and try to repair it yourself.   Physical damages and electronic shock may happen.

＊The unit comes with M5 bolts and a hexagonal spanner for rotor exchanging.

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