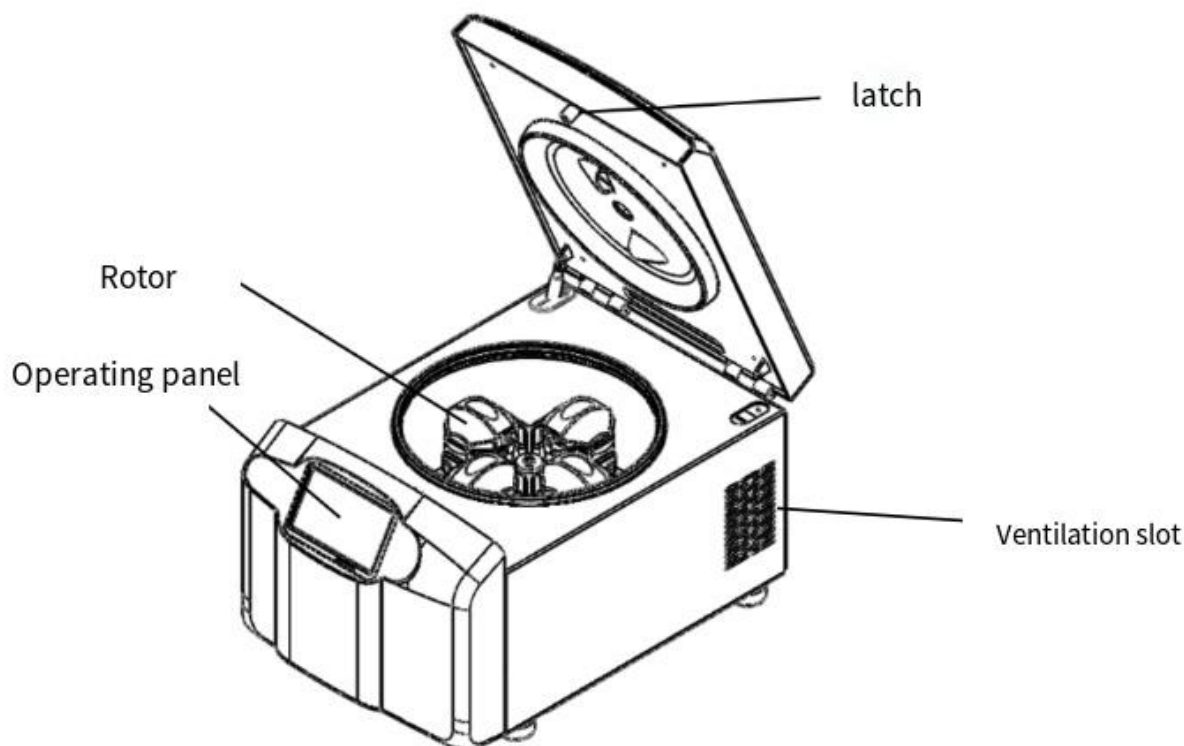




DG1616R

High Speed Centrifuge

Instruction Manual



Installation instructions

- 1) Unpack and place the centrifuge on a sturdy, flat surface (such as a test bench).
- 2) Ensure a good working environment with an ambient temperature of 15 °C to 25 °C.
- 3) Protect the centrifuge from exposure to direct sunlight or temperatures above 30 °C.
- 4) Keep the unit > 30cm away from other objects to ensure good ventilation.



- 5) Keep the centrifuge away from heat sources or water (liquid) and chemical operations.

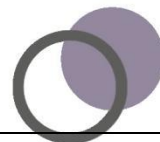
1、 Rotor preparation

- 1) Prepare the sample to be separated.
- 2) Place the sample into the centrifuge tube: Do not exceed the maximum amount of sample allowed in the centrifuge tube, adding excess sample can cause leakage.
- 3) Make sure the centrifuge tube is balanced: It is recommended that the sample be weighed using a balance to ensure balance.
- 4) Rotor installation and replacement: Make sure to screw the rotor tightly with the spindle.
- 5) Ensure that the balanced centrifugal tube is placed symmetrically in the rotor hole.
- 6) A variety of adaptive rotors are available:

Rotor model	capacity	Adapters	Centrifuge tube	Maximum relative centrifugal force	Centrifugal radius
SR400	4x400mL	-	400ML centrifugal bottle	4639xg	16.6 cm
	16x100mL	100mL adapter	100ML centrifugal bottle with round bottom		
	16x50mL	50mL adapter	50ML pointy bottom tube		
	36x15mL	15mL adapter	15ML pointy bottom tube		
	76x7mL	5/7mL adapter	5/7mL sampling		



Centrifuges



			vessel		
	136x2mL	2mL adapter	1.5-2mL centrifuge tube		
SR200	4x200mL	-	180mL centrifugal bottle	5495xg	16.25 cm
	4x100mL	100mL adapter	100mL centrifugal bottle with round bottom		
	4x50mL	50mL adapter	50mL pointy bottom tube		
	20x15mL	15mL adapter	15mL pointy bottom tube		
	32x7mL	5/7mL adapter	5/7mL sampling vessel		
	48X2mL	2mL adapter	1.5-2mL microcentrifuge tube		
SE4-100	36×7ml	9 hole hanging rings	3-7mL blood vessel collection	2950xg	16.5 cm
	16×15ml	4 hole hanging rings	10/15mL centrifuge tube		
	8×50ml	2 hole hanging rings	50mL centrifuge tube		
	4×100ml	Single hole hanging ring	100mL centrifugal bottle		



S2-MP	Deep hole plate x4/ Microhole plate x8	-	384 well PCR/96 well PCR/ enzyme label plate x 8/ Deep hole plate x 4	2200xg	12.3 cm
AS6-50V	50mLx6 15mLx6	-	50/15mL centrifuge tube	4020xg	10cm
AS12-PCR8	PCR8x12	-	PCR8x12	4020xg	10cm
AS18-5V	5mLx18	-	5mL pointy bottom tube	4020xg	10cm
AS30-2	2mLx30	-	1.5/2mL microcentrifuge tube	4020xg	10cm
A8-50	50mLx8/1 5mLx16	-	50/15mL centrifuge tube	3960xg	14.2 cm
AS60-2	2mLx60	-	1.5/2mL microcentrifuge tube	4020xg	10cm
A30-15	15mL x30	-	10mL /15mL centrifuge tube	3210xg	14.18 cm

2、 Controls

- 1) Set running parameters: Click the icon in the upper left corner of the screen or any parameter icon (as shown in Figure 1) to enter the setting interface I (as shown in Figure 2), this interface can adjust the speed, running time, cooling temperature (air cooling model does not have this), select the



required parameters, through the right small keyboard of the interface, adjust the parameter value. Click the "Other" icon in interface 1 to enter Interface 2 (as shown in FIG. 3). The timing mode and temperature unit can be selected by selecting the method; The speed lifting time can be clicked in the parameter box, and then the setting interface will pop up (as shown in Figure 4), and the parameters of the speed lifting gear can be selected; The system time can be adjusted through the right keypad; The system language can be selected through the drop-down menu.

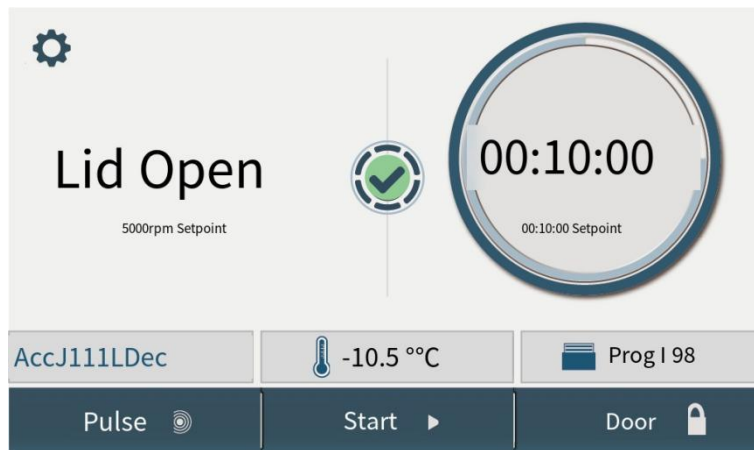


Figure 1

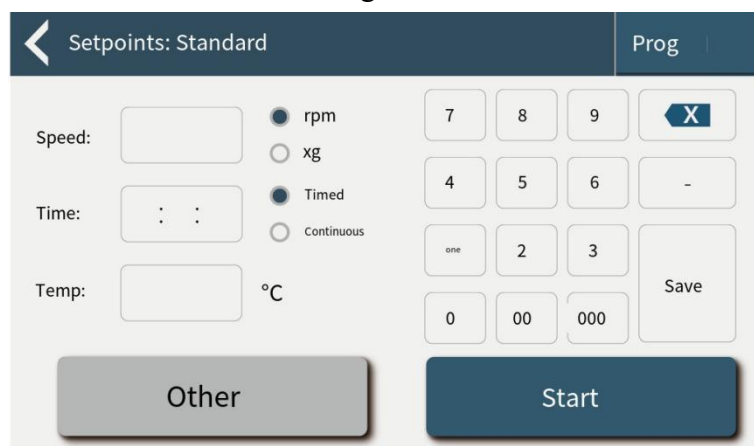


Figure 2

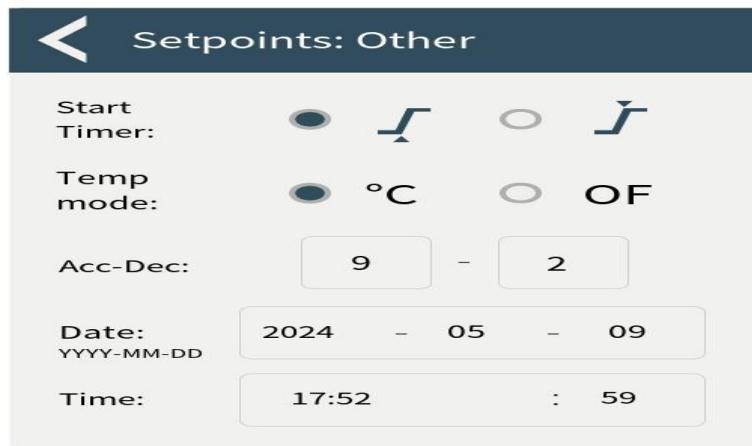



Figure 3



Figure 4

- 2) Speed setting: The unit of speed is rpm, the speed range is 300-16000rpm, the centrifugal force and speed can be switched behind the parameter setting box  ;
- Time setting: the time range is 30 seconds -99 hours 59 minutes 59 seconds. When "continuous" is selected, it indicates continuous operation mode.

3、 Start running

- 1) Click on the Run icon  to start running and the icon changes to  ;

4、 End run

- 1) When the run time is up or the motor stop icon  , the centrifuge stops running.





Centrifuges



- 2) When the speed drops to 0, you can click the door lock icon  to open the top cover.
- 3) Open top cover and remove sample and rotor.

5、 Technical parameters

Maximum RPM	16000rpm
Maximum relative centrifugal force	28621g
Capacity	4x400mL
Timing	Timing /HOLD (continuous run)
Temperature Setting	-10°C / 40°C
Lift speed time	9s↑9s↓
Program storage	100
Motor type	Dc brushless motor
Noise levels	≤70dB
Power supply	100-230V, 50-60Hz 1050W
Size (LxW xD)	658x623x375mm
Weight	90Kg
Allow ambient temperature humidity	5-40 ° C, 80%RH

