



# Centrifuge Manual

Model: TD4Y  
Tabletop Low Speed Centrifuge

Before using this product, please read this manual carefully to learn about the available features to obtain the best results of this equipment.

## Specifications:

- Max Speed: 4000rpm
- Max. RCF: 1980g
- Rotor Capacity: 15ml x 8 conical tubes , 15ml / 10mlx12 round tubes,  
5/7ml x 12 blood vacuum tubes for 13x75mm and 13x100mm
- Time Setting: 1sec. ~ 99min.
- Speed Accuracy:  $\pm 50$ r/min.
- Noise (maximum speed):  $\leq 60$ dB
- Voltage: 110V - 240V, 50Hz / 60Hz
- Power: 80W
- Net Weight: 7kgs

## Safety Instructions:

1. This machine is designed for clinical medicine, biology, genetic engineering, immunology, etc. which is used indoor on a flat surface.
2. Make sure to plug centrifuge into the proper voltage outlet.
3. Make sure the specimen tubes are equal and balanced. Unbalanced tubes will cause the machine to shake and not give a smooth spinning motion.
4. Make sure specimen tubes are completely sealed before turning on the centrifuge.
5. Allow centrifuge to come to a complete and full stop before removing the specimens.
6. Disconnect the plug before attempting to clean the inside of this machine.
7. Never move the centrifuge while it is running.
8. To avoid injury to personnel and or separated samples inside the unit; do not use flammable and explosive materials, strong chemical materials and toxic or radioactive materials in the centrifuge.

## Operating Principle:

1. Plug in and switch on power.
2. Open the lid. Please notice the below picture before operation.  
(The unit is designed to automatically stop when the lid is open.)
3. Install the rotor: put in the tube with sample which the value is less than the 90% of tube. The tubes shall be place in symmetry with balance.
4. Close the door, then setup the Speed/RCF and operating time.



## Steps of Setup:

Insert the centrifuge tubes that you want to spin in a manner to balance out the specimen tubes weight. In order to get a smooth running centrifuge always insert even number of tubes on opposite sides of centrifuge with approximately the same amount of the specimens in each tube.

Using control panel:

Push the "Run/Stop" to start or stop running

Push the "▲ or ▼" (increase/decrease) to adjust the time setting from 1 second to 99 minutes (a second increment between 1 to 59 seconds, then a minute increment between 1 to 99 minutes ),

Push the “▲ or ▼” (increase/decrease) to adjust the speed setting from 500rpm to 4000rpm in 10rpm increment.

In order to change into RCF, push “▲ or ▼” (set speed) in same time more than 3seconds.

1. This centrifuge has a memory setting and will run the previous program during the same session (after the power is turned off the program time and speed must be re-entered.)
2. If the tube is too short for the tube holder shell you may install the silicon cushions provided inside the bottom of each holder. Please make sure that specimen tubes are snug into holder before starting centrifuge.

### Rotor Choice:



For 5/7ml rotor use, we supply two types of holders which is different for 75mm and 100mm length blood vacuum tubes.

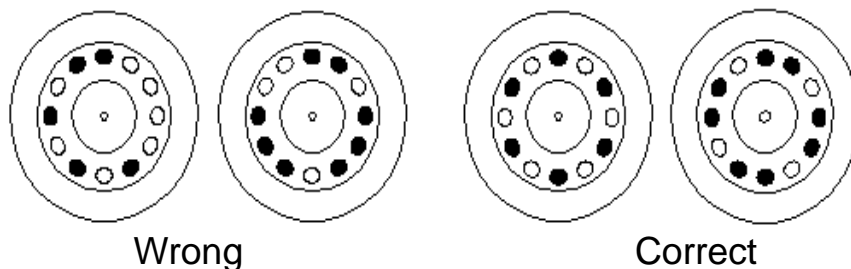
If use 75mm tubes, please put into left holders (with a stand for support).

If use 100mm tubes, please put into right holders (no stand inside).



### Caution!

Put sample into tube, and then put the tube in rotor and close the gate. Please note that the sample amount should be less than the 90% of tube. The tubes shall be placed in symmetry with balance.



## Maintenance:

- 1、 Spread some butter or vaseline on the shaft of motor per week.
- 2、 If tube is broken or liquid overflow, clean the holders and chamber immediately.
- 3、 Before use, check the rotor in case of any flaw or the spot of eroded appeared.
- 4、 After a period of time, replace the used test tubes in time.
- 5、 Make centrifuge & rotor located in drafty room if it does not used for a long time.
- 6、 Please plug off if centrifuge does not work for a long time.
- 7、 If you have problems operating the centrifuge please call your dealer or authorized service provider for help. Don't attempt to fix the machine by yourself.

## Warranty:

The manufacturer warrants this instrument to be free from defects in material and workmanship under normal use for 1 year from the date of purchase. It does not cover damage resulting from abuse or misuse, repairs or alterations performed by unauthorized repair technicians, or damage occurring in transit. If you have questions concerning this product or warranty, contact the dealer from whom it was purchased. For warranty service, product should be well packed to avoid damage in transit, preferably in original box and packing. Include your complete return address and telephone number as well as a description of the difficulty, date and place of purchase, and ship to the address below. If under warranty it will be repaired or replaced at no charge and returned. If misuse, alterations, accident or abnormal conditions of operation caused failure, an estimate for repairs will be provided for your approval prior to work being performed.

## Manufacturer Statement:

The product complies with international ISO 13485:2016 standards by manufacturer, and conform to industrial low voltage centrifuge production standards. Electrical parts are in line with the CE directives of IVD, and EN61010 & EN61326 by manufacturer.

