

**Making Better Centrifuge to Serve the World**



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ISO 13485:2016  
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CE

**2023**



# SHUKE CENTRIFUGE

# CATALOGUE

WE ONLY FOCUS ON CENTRIFUGE

**SiChuan ShuKe Instrument Co.,Ltd**



# CERTIFICATE & HONOR

## ABOUT US

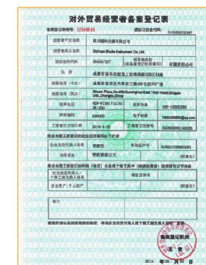
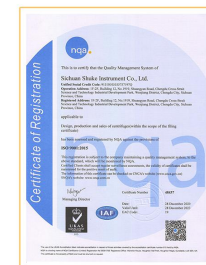
Sichuan Shuke Instrument Co., Ltd. was established in 2010. It is a high-tech enterprise specializing in the R&D, production, sales and service of laboratory centrifuge.

Our main products include: high speed centrifuges, low speed centrifuges, refrigerated centrifuges, large capacity centrifuges, beauty centrifuges, PRP/PPP preparation centrifuges, blood bank centrifuges, automatic positioning centrifuges, more than 90 specifications and models.

The biosafety blood tube auto-decapping centrifuge developed by our company has a unique primary, middle and high-efficiency filtration system, which can timely filter out the harmful gas generated after decapping vacuum blood collection tube, and is equipped with ultraviolet sterilization function. (National invention patent product, patent number: ZL 2015 1 0469403.5)

Shuke takes the lead in integrating a new generation of RFID rotor intelligent identification system, which can automatically identify all the rotor information without running and improve the efficiency and accuracy of rotor identification, prevents the rotor from over-speeding, and ensures the safety of centrifugal work.

The products are widely used in scientific research and production units such as agricultural science, bioengineering, food, chemical industry, pharmacy, clinical medicine, disease control, environmental protection, inspection and quarantine, etc. At the same time, the products are exported to overseas and are highly praised by domestic and foreign customers.



\* 版面限制，只展示部分证书

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## LG-25M Floorstanding High Speed Large Capacity Refrigerated Centrifuge

LG-25M Floorstanding high speed large capacity refrigerated centrifuge is widely used in pharmaceutical factories, blood banks, laboratories and scientific research units. With max capacity 4\*1000ml, it can meet the centrifugal requirements of large capacity and high speed.



### FEATURES

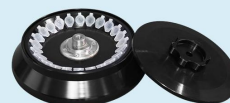
- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Automatic rotor identification; Servo door lock.
- ◆ The rotor is automatically locked, and it can be directly picked and placed without using tools like spanner.
- ◆ Setting parameters by directly inputting digits, accurate to ones place.
- ◆ Intelligent status display, real-time and real values.
- ◆ Stores up to 100 programs and 1000 run histories.
- ◆ Can set and save 5 groups of multi-stage centrifugation program.
- ◆ Time display: year, month, day, hour, minute, second, easy to trace the usage record.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, support setting free-stop.
- ◆ Curve display: Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.
- ◆ Password lock function: Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure, overheating. Sound and text prompt at the same time and display solutions.
- ◆ With electronic manual, never lost, easy to use.
- ◆ Large torque variable frequency motor, flexible shaft, three-stage vibration reduction.
- ◆ Imported compressor unit, CFC-free, heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ Optional ECO energy saving module.
- ◆ Optional Functions: Multi-level permission assignment; Intelligent management platform; Multifunctional Control Operating System; Centrifugal record traceability.

### TECHNICAL PARAMETER

Model	Max Speed	Speed Accuracy	Time Range	Noise
LG-25M	25000rpm	$\pm 10$ r/min	1s-99h59m59s	$\leq 65\text{dB}$ (A)
	Max RCF	Temp. Range	Dimension (mm)	Weight
	64800 $\times$ g	-20 $^{\circ}\text{C}$ ~ 40 $^{\circ}\text{C}$	850 $\times$ 730 $\times$ 930	280Kg
	Max Capacity	Temp. Accuracy	Power Supply (AC)	Power
4 $\times$ 1000ml	$\pm 1^{\circ}\text{C}$	220V 50HZ 32A	5KW	

### ROTOR PARAMETER

No.1



Rotor: Fixed Angle Rotor  
Capacity: 24 $\times$ 1.5/2.2ml  
Max Speed: 25000r/min  
Max RCF: 64800 $\times$ g  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.2



Rotor: Fixed Angle Rotor  
Capacity: 16 $\times$ 10ml  
Max Speed: 23000r/min  
Max RCF: 56880 $\times$ g  
Tube Size:  $\Phi 16 \times 86\text{mm}$

No.3



Rotor: Fixed Angle Rotor  
Capacity: 8 $\times$ 50ml round bottom  
Max Speed: 21000r/min  
Max RCF: 52360 $\times$ g  
Tube Size:  $\Phi 29 \times 111\text{mm}$

No.4



Rotor: Fixed Angle Rotor  
Capacity: 6 $\times$ 300ml  
Max Speed: 12000r/min  
Max RCF: 24110 $\times$ g  
Tube Size:  $\Phi 61 \times 136\text{mm}$

No.5



Rotor: Fixed Angle Rotor  
Capacity: 6 $\times$ 500ml  
Max Speed: 10000r/min  
Max RCF: 18590 $\times$ g  
Tube Size:  $\Phi 74 \times 170\text{mm}$

No.6



Rotor: Fixed Angle Rotor  
Capacity: 4 $\times$ 1000ml  
Max Speed: 8000r/min  
Max RCF: 12040 $\times$ g  
Tube Size:  $\Phi 97 \times 166\text{mm}$

No.7



Rotor: Fixed Angle Rotor  
Capacity: 12 $\times$ 50ml conical bottom  
Max Speed: 14000r/min  
Max RCF: 30070 $\times$ g  
Tube Size:  $\Phi 29 \times 120\text{mm}$

No.8



Rotor: Swing Out Rotor  
Capacity: 4 $\times$ 750ml  
Max Speed: 5000r/min  
Max RCF: 5600 $\times$ g  
Tube Size:  $\Phi 100 \times 141\text{mm}$

No.9



Rotor: Swing Out Rotor  
Capacity: 6 $\times$ 50ml round bottom  
Max Speed: 10000r/min  
Max RCF: 15680 $\times$ g  
Tube Size:  $\Phi 29 \times 111\text{mm}$

No.10



Rotor: Fixed Angle Rotor  
Capacity: 12 $\times$ 15ml conical bottom  
Max Speed: 18000r/min  
Max RCF: 34740 $\times$ g  
Tube Size:  $\Phi 17 \times 121\text{mm}$

# LG-22M Floorstanding High Speed Large Capacity Refrigerated Centrifuge












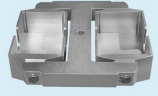



## FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Automatic rotor identification;Servo door lock.
- ◆ The rotor is automatically locked,and it can be directly picked and placed without using tools like spanner.
- ◆ Setting parameters by directly inputting digits , accurate to ones place.
- ◆ Intelligent status display,real-time and real values.
- ◆ Stores up to 100 programs and 1000 run histories.
- ◆ Can set and save 5 groups of multi-stage centrifugation program.
- ◆ Time display:year, month, day, hour, minute, second, easy to trace the usage record.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, support setting free-stop.
- ◆ Curve display:Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.
- ◆ Password lock function:Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure,overheating. Sound and text prompt at the same time and display solutions.
- ◆ With electronic manual, never lost, easy to use.
- ◆ Large torque variable frequency motor, flexible shaft,three-stage vibration reduction.
- ◆ Imported compressor unit, CFC-free,heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ Optional ECO energy saving module.
- ◆ Optional Functions:Multi-level permission assignment;Intelligent management platform;Multifunctional Control Operating System ;Centrifugal record traceability.

## TECHNICAL PARAMETER

Model	Max Speed	Speed Accuracy	Time Range	Noise
LG-22M	22000rpm	$\pm 10$ r/min	1s-99h59m59s	$\leq 65\text{dB}$ (A)
	Max RCF	Temp. Range	Dimension (mm)	Weight
	52050 $\times$ g	-20 $^{\circ}\text{C}$ ~ 40 $^{\circ}\text{C}$	850 $\times$ 730 $\times$ 930	260Kg
	Max Capacity	Temp. Accuracy	Power Supply (AC)	Power
6 $\times$ 500ml	$\pm 1^{\circ}\text{C}$	220V 50HZ 32A	5KW	

## ROTOR PARAMETER

No.1	No.2	No.3	No.4	
				
Rotor: Fixed Angle Rotor Capacity: 16 $\times$ 10ml Max Speed: 22000r/min Max RCF: 52050 $\times$ g Tube Size: $\Phi 16 \times 86\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 24 $\times$ 1.5/2.2ml Max Speed: 21000r/min Max RCF: 43960 $\times$ g Tube Size: $\Phi 11 \times 42\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 6 $\times$ 50ml Round Bottom Max Speed: 20000r/min Max RCF: 44800 $\times$ g Tube Size: $\Phi 29 \times 111\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 8 $\times$ 50ml Round Bottom Max Speed: 18000r/min Max RCF: 38460 $\times$ g Tube Size: $\Phi 29 \times 111\text{mm}$	
No.5	No.6	No.7	No.8	
				
Rotor: Fixed Angle Rotor Capacity: 6 $\times$ 100ml Max Speed: 16000r/min Max RCF: 30910 $\times$ g Tube Size: $\Phi 37 \times 123\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 8 $\times$ 100ml Max Speed: 12000r/min Max RCF: 19830 $\times$ g Tube Size: $\Phi 37 \times 123\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 4 $\times$ 300ml Max Speed: 14000r/min Max RCF: 28150 $\times$ g Tube Size: $\Phi 61 \times 136\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 6 $\times$ 300ml Max Speed: 12000r/min Max RCF: 24110 $\times$ g Tube Size: $\Phi 61 \times 136\text{mm}$	
No.9	No.10	No.11	No.12	No.13
				
Rotor: Fixed Angle Rotor Capacity: 6 $\times$ 500ml Max Speed: 10000r/min Max RCF: 18590 $\times$ g Tube Size: $\Phi 74 \times 170\text{mm}$	Rotor: Microplate Rotor Capacity: 2 $\times$ 3 $\times$ 96hole $\times$ 0.2ml Max Speed: 4000r/min Max RCF: 1970 $\times$ g Tube Size: $\Phi 128 \times 87 \times 60\text{mm}$	Rotor: Swing Out Rotor Capacity: 4 $\times$ 50ml Max Speed: 10000r/min Max RCF: 16200 $\times$ g Tube Size: $\Phi 29 \times 111\text{mm}$	Rotor: Swing Out Rotor Capacity: 4 $\times$ 30ml Max Speed: 13000r/min Max RCF: 23800 $\times$ g Tube Size: $\Phi 25.5 \times 90\text{mm}$	Rotor: Swing Out Rotor Capacity: 4 $\times$ 4 $\times$ 5ml Max Speed: 12000r/min Max RCF: 11900 $\times$ g Tube Size: $\Phi 14 \times 54\text{mm}$

# LG-21M Floorstanding High Speed Large Capacity Refrigerated Centrifuge



## ADVANTAGES

### Automatic rotor identification

With this function, device can automatically identify rotor specifications, capacity, max speed and other information to prevent overspeed

### Rotor automatically be locked

No need to manually lock the rotor by using nuts, bolts, wrenches, etc., user can directly pick and place rotor, which is safe, convenient and fast

### Double-loop temperature control

The system monitors the temperature in the chamber in real time, and when there is a deviation from the set temperature, the centrifuge will adjust by heating or cooling to reach set temperature.

## FEATURES

- Variable frequency motor drive, microprocessor control, LCD&LED dual-screen display.
- Can store 12 programs.40 acceleration and deceleration stages.
- Automatic fault diagnosis.
- Imported compressor unit, CFC-free; Heating and cooling double-loop control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- RCF can be set directly without RPM/RCF conversion.
- Imported famous brand frequency conversion controller controls speed accurately and has long life.
- User can modify parameters when rotor is running.
- All steel housing and stainless steel chamber to ensure safety.

## TECHNICAL PARAMETER

Model	Max Speed	Speed Accuracy	Time Range	Noise
LG-21M	21000rpm	$\pm 10$ r/min	1min-99h59min/inching	$\leq 65$ dB (A)
	Max RCF	Temp. Range	Dimension (mm)	Weight
	47400 $\times$ g	-20 $^{\circ}\text{C}$ ~ 40 $^{\circ}\text{C}$	850 $\times$ 730 $\times$ 930	260Kg
	Max Capacity	Temp. Accuracy	Power Supply (AC)	Power
	6 $\times$ 500ml	$\pm 1^{\circ}\text{C}$	220V 50HZ 32A	5KW

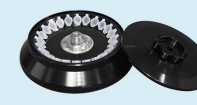
## ROTOR PARAMETER

No.1



Rotor: Fixed Angle Rotor  
Capacity: 16 $\times$ 10ml  
Max Speed: 21000r/min  
Max RCF: 47400 $\times$ g  
Tube Size:  $\Phi 16 \times 86$ mm

No.2



Rotor: Fixed Angle Rotor  
Capacity: 24 $\times$ 1.5/2.2ml  
Max Speed: 21000r/min  
Max RCF: 43960 $\times$ g  
Tube Size:  $\Phi 11 \times 42$ mm

No.3



Rotor: Fixed Angle Rotor  
Capacity: 6 $\times$ 50ml Round Bottom  
Max Speed: 20000r/min  
Max RCF: 44800 $\times$ g  
Tube Size:  $\Phi 29 \times 111$ mm

No.4



Rotor: Fixed Angle Rotor  
Capacity: 8 $\times$ 50ml Round Bottom  
Max Speed: 18000r/min  
Max RCF: 38460 $\times$ g  
Tube Size:  $\Phi 29 \times 111$ mm

No.5



Rotor: Fixed Angle Rotor  
Capacity: 6 $\times$ 100ml  
Max Speed: 16000r/min  
Max RCF: 30910 $\times$ g  
Tube Size:  $\Phi 37 \times 123$ mm

No.6



Rotor: Fixed Angle Rotor  
Capacity: 8 $\times$ 100ml  
Max Speed: 12000r/min  
Max RCF: 19830 $\times$ g  
Tube Size:  $\Phi 37 \times 123$ mm

No.7



Rotor: Fixed Angle Rotor  
Capacity: 4 $\times$ 300ml  
Max Speed: 14000r/min  
Max RCF: 28150 $\times$ g  
Tube Size:  $\Phi 61 \times 136$ mm

No.8



Rotor: Fixed Angle Rotor  
Capacity: 6 $\times$ 300ml  
Max Speed: 12000r/min  
Max RCF: 24110 $\times$ g  
Tube Size:  $\Phi 61 \times 136$ mm

No.9



Rotor: Fixed Angle Rotor  
Capacity: 6 $\times$ 500ml  
Max Speed: 10000r/min  
Max RCF: 18590 $\times$ g  
Tube Size:  $\Phi 74 \times 170$ mm

No.10



Rotor: Microplate Rotor  
Capacity: 2 $\times$ 3 $\times$ 96hole $\times$ 0.2ml  
Max Speed: 4000r/min  
Max RCF: 1970 $\times$ g  
max: 128 $\times$ 87 $\times$ 60mm

No.11



Rotor: Swing Out Rotor  
Capacity: 4 $\times$ 50ml  
Max Speed: 10000r/min  
Max RCF: 16200 $\times$ g  
Tube Size:  $\Phi 29 \times 111$ mm

No.12



Rotor: Swing Out Rotor  
Capacity: 4 $\times$ 30ml  
Max Speed: 13000r/min  
Max RCF: 23800 $\times$ g  
Tube Size:  $\Phi 25.5 \times 90$ mm

No.13



Rotor: Swing Out Rotor  
Capacity: 4 $\times$ 4 $\times$ 5ml  
Max Speed: 12000r/min  
Max RCF: 11900 $\times$ g  
Tube Size:  $\Phi 14 \times 54$ mm

## LG-16M Floorstanding High Speed Large Capacity Refrigerated Centrifuge







### FEATURES

- ◆ Variable frequency motor drive, microprocessor control, LCD&LED dual-screen display.
- ◆ Automatic rotor identification to prevent overspeed.
- ◆ Rotor can be automatically locked.No need to manually lock the rotor by using nuts, bolts, wrenches, etc., can directly pick and place rotor, which is safe, convenient and fast
- ◆ Can store 12 programs.40 acceleration and deceleration stages.
- ◆ Automatic fault diagnosis.
- ◆ Imported compressor unit, CFC-free; Heating and cooling double-loop control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Imported famous brand frequency conversion controller controls speed accurately and has long life.
- ◆ User can modify parameters when rotor is running.
- ◆ All steel housing and stainless steel chamber to ensure safety.

### TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
LG-16M	16000rpm	6×500ml	$\pm 10$ r/min	1min-99h59min/inching	AC 220V 50HZ 32A	$\leq 65\text{dB (A)}$
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	27520×g	$\pm 1^{\circ}\text{C}$	-20°C ~ 40°C	850×730×930	4.5KW	260Kg

### ROTOR PARAMETER

No.1		No.2		No.3		No.4	
Rotor: Fixed Angle Rotor Capacity: 6×50ml Max Speed: 16000r/min Max RCF: 27520×g Tube Size: $\Phi 29 \times 111\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 24×1.5/2.2ml Max Speed: 16000r/min Max RCF: 25520×g Tube Size: $\Phi 11 \times 42\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 16×10ml Max Speed: 16000r/min Max RCF: 27500×g Tube Size: $\Phi 16 \times 86\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 6×100ml Max Speed: 14000r/min Max RCF: 23600×g Tube Size: $\Phi 37 \times 123\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 8×50ml Max Speed: 14000r/min Max RCF: 23270×g Tube Size: $\Phi 29 \times 111\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 6×300ml Max Speed: 10000r/min Max RCF: 16750×g Tube Size: $\Phi 61 \times 136\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 6×500ml Max Speed: 8000r/min Max RCF: 11860×g Tube Size: $\Phi 74 \times 170\text{mm}$	Rotor: Swing Out Rotor Capacity: 4×750ml Max Speed: 4000r/min Max RCF: 3500×g Tube Size: $\Phi 100 \times 141\text{mm}$

## LG-10M Floorstanding High Speed Large Capacity Refrigerated Centrifuge



### FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Automatic rotor identification;Servo door lock.
- ◆ The rotor is automatically locked,and it can be directly picked and placed without using tools like spanner.
- ◆ Setting parameters by directly inputting digits , accurate to ones place.
- ◆ Intelligent status display,real-time and real values.
- ◆ Stores up to 100 programs and 1000 run histories.
- ◆ Can set and save 5 groups of multi-stage centrifugation program.
- ◆ Time display:year, month, day, hour, minute, second, easy to trace the usage record.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, support setting free-stop.
- ◆ Curve display:Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.
- ◆ Password lock function:Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure, overheating. Sound and text prompt at the same time and display solutions. With electronic manual, never lost, easy to use.
- ◆ Large torque variable frequency motor, flexible shaft,three-stage vibration reduction.
- ◆ Imported compressor unit, CFC-free,heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ Optional ECO energy saving module.

### TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
LG-10M	10000rpm	6×1000ml	$\pm 10$ r/min	1s-99h59m59s	AC 220V 50HZ 32A	$\leq 65\text{dB (A)}$
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	18590×g	$\pm 1^{\circ}\text{C}$	-20°C ~ 40°C	850×730×930	5.5KW	260Kg

### ROTOR PARAMETER

No.1		No.2		No.3	
Rotor: Fixed Angle Rotor Capacity: 6×500ml Max Speed: 10000r/min Max RCF: 18590×g Tube Size: $\Phi 74 \times 170\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 6×1000ml Max Speed: 8000r/min Max RCF: 15190×g Tube Size: $\Phi 97 \times 166\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 6×300ml Max Speed: 10000r/min Max RCF: 16750×g Tube Size: $\Phi 61 \times 136\text{mm}$			

# LG-22 Floorstanding High Speed Large Capacity Refrigerated Centrifuge



## FEATURES

- ◆ LCD touch screen with simple & clear interface for viewing and setting parameters.
- ◆ Intelligent status display, real-time and real values.
- ◆ Can set and save 5 groups of multi-stage centrifugation program.
- ◆ Time display: year, month, day, hour, minute, second, easy to trace the usage record.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvily slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ Curve display: Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.
- ◆ Password lock function: Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure, overheating. Sound and text prompt at the same time and display solutions.
- ◆ With electronic manual, never lost, easy to use.

## ADVANTAGES

- ◆ **Automatic Rotor Identification**  
Equipped with RFID intelligent rotor recognition technology. Without rotor spin, centrifuge can immediately recognize rotor information like rotor specifications, capacity, max speed, max RCF, production date, rotor life and etc.
- ◆ **Imbalance Detection**  
Three axis gyroscope detects imbalance in the whole spin process.
- ◆ **PID dynamically control temperature**  
PID automatically and dynamically control temperature, more accurate temp. control.

## Large Storage Space

Stores up to 1000 programs and thousands of run histories, which can be exported as PDF file.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
LG-22	22000rpm	4×750ml	±10 r/min	1s-99h59m59s	AC 220V 50HZ 15A	≤60dB (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	33820×g	±1 °C	-20°C ~ 40°C	680×620×840	1.8KW	160Kg

## ROTOR PARAMETER

No.1	No.2	No.3-1	No.3-2	No.4
Rotor: Fixed Angle Rotor Capacity: 12×1.5/2.2ml Max Speed: 22000r/min Max RCF: 33820×g Tube Size: Φ11×42mm	Rotor: Fixed Angle Rotor Capacity: 12×5ml Max Speed: 17000r/min Max RCF: 23460×g Tube Size: Φ14×54mm	Rotor: Fixed Angle Rotor Capacity: 24×1.5/2.2ml Max Speed: 16500r/min Max RCF: 26360×g Tube Size: Φ11×42mm	Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24×1.5/2.2ml Max Speed: 18000r/min Max RCF: 30790×g Tube Size: Φ11×42mm	Rotor: Fixed Angle Rotor Capacity: 12×10ml Max Speed: 15000r/min Max RCF: 20800×g Tube Size: Φ16×86mm
No.5-1	No.5-2	No.6-1	No.6-2	
Rotor: Fixed Angle Rotor Capacity: 6×50ml Max Speed: 13000r/min Max RCF: 18420×g Tube Size: Φ29×111mm	Rotor: Fixed Angle Rotor Capacity: 6×50ml Conical Bottom Max Speed: 13000r/min Max RCF: 18420×g Tube Size: Φ29×116mm	Rotor: Fixed Angle Rotor Capacity: 4×100ml Max Speed: 11000r/min Max RCF: 13350×g Tube Size: Φ37×123mm	Rotor: Fixed Angle Rotor Capacity: 8×50ml Round Bottom Max Speed: 11000r/min Max RCF: 13350×g Tube Size: Φ29×111mm	
No.6-3	No.7	No.8	No.9	No.10
Rotor: Fixed Angle Rotor Capacity: 12×15ml Conical Bottom Max Speed: 13000r/min Max RCF: 18650×g Tube Size: Φ17×121mm	Rotor: Microplate Rotor Capacity: 2×3×96hole×0.2ml Max Speed: 4000r/min max: 128×87×60mm	Rotor: Swing Out Rotor Capacity: 4×250ml (Adaptors same to LD-5M) Max Speed: 4500r/min Max RCF: 3720×g Tube Size: Φ63×121mm	Rotor: Swing Out Rotor Capacity: 4×500ml (Adaptors same to LD-5M) Max Speed: 4200r/min Max RCF: 3500×g Tube Size: Φ80×137mm	Rotor: Swing Out Rotor Capacity: 4×750ml (Adaptors same to LD-5M) Max Speed: 4000r/min Max RCF: 3500×g Tube Size: Φ100×141mm



# LG-18 Floorstanding High Speed Large Capacity Refrigerated Centrifuge



## FEATURES

- ◆ LCD touch screen with simple & clear interface for viewing and setting parameters.
- ◆ Intelligent status display, real-time and real values.
- ◆ Can set and save 5 groups of multi-stage centrifugation program.
- ◆ Time display: year, month, day, hour, minute, second, easy to trace the usage record.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ Curve display: Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.
- ◆ Password lock function: Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure, overheating. Sound and text prompt at the same time and display solutions.
- ◆ With electronic manual, never lost, easy to use.

## ADVANTAGES

- ◆ **Automatic Rotor Identification**  
Equipped with RFID intelligent rotor recognition technology. Without rotor spin, centrifuge can immediately recognize rotor information like rotor specifications, capacity, max speed, max RCF, production date, rotor life and etc.
- ◆ **Imbalance Detection**  
Three axis gyroscope detects imbalance in the whole spin process.
- ◆ **PID dynamically control temperature**  
PID automatically and dynamically control temperature, more accurate temp. control.

## Large Storage Space

Stores up to 1000 programs and thousands of run histories, which can be exported as PDF file.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
LG-18	18000rpm	4×250ml	±10 r/min	1s-99h59m59s	AC 220V 50HZ 15A	≤60dB (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	24790×g	±1 °C	-20°C ~ 40°C	680×620×840	1.8KW	160Kg

## ROTOR PARAMETER

No.1



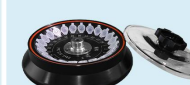
Rotor: Fixed Angle Rotor  
Capacity: 12×1.5/2.2ml  
Max Speed: 18000r/min  
Max RCF: 22640×g  
Tube Size: Φ11×42mm

No.2



Rotor: Fixed Angle Rotor  
Capacity: 12×5ml  
Max Speed: 16000r/min  
Max RCF: 20780×g  
Tube Size: Φ14×54mm

No.3-1



Rotor: Fixed Angle Rotor  
Capacity: 24×1.5/2.2ml  
Max Speed: 16000r/min  
Max RCF: 24790×g  
Tube Size: Φ11×42mm

No.3-2



Rotor: Fixed Angle Rotor (aerosol tight)  
Capacity: 24×1.5/2.2ml  
Max Speed: 18000r/min  
Max RCF: 30790×g  
Tube Size: Φ11×42mm

No.4



Rotor: Fixed Angle Rotor  
Capacity: 12×10ml  
Max Speed: 15000r/min  
Max RCF: 20800×g  
Tube Size: Φ16×86mm

No.5-1



Rotor: Fixed Angle Rotor  
Capacity: 6×50ml  
Max Speed: 13000r/min  
Max RCF: 18420×g  
Tube Size: Φ29×111mm

No.5-2



Rotor: Fixed Angle Rotor  
Capacity: 6×50ml Conical Bottom  
Max Speed: 13000r/min  
Max RCF: 18420×g  
Tube Size: Φ29×116mm

No.6-1



Rotor: Fixed Angle Rotor  
Capacity: 4×100ml  
Max Speed: 10000r/min  
Max RCF: 11040×g  
Tube Size: Φ37×123mm

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8×50ml Round Bottom  
Max Speed: 10000r/min  
Max RCF: 11040×g  
Tube Size: Φ29×111mm

No.6-3



Rotor: Fixed Angle Rotor  
Capacity: 12×15ml Conical Bottom  
Max Speed: 12000r/min  
Max RCF: 15890×g  
Tube Size: Φ17×121mm

No.7



Rotor: Fixed Angle Rotor  
Capacity: 6×10ml  
Max Speed: 16000r/min  
Max RCF: 18980×g  
Tube Size: Φ16×86mm

No.8



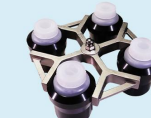
Rotor: Fixed Angle Rotor  
Capacity: 8×15ml  
Max Speed: 14000r/min  
Max RCF: 17310×g  
Tube Size: Φ17×121mm

No.9



Rotor: Microplate Rotor  
Capacity: 2×3×96hole×0.2ml  
Max Speed: 4000r/min  
Max RCF: 1970×g  
max: 28×87×60mm

No.10



Rotor: Swing Out Rotor  
Capacity: 4×250ml  
(Adaptors same to LD-5M)  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ63×121mm

# LD-8M Floorstanding Low Speed Huge Capacity Refrigerated Centrifuge



## FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Servo door lock.
- ◆ Setting parameters by directly inputting digits,accurate to ones place.
- ◆ Intelligent status display,real-time and real values.
- ◆ Large storage space, stores up to 100 programs and 1000 run histories.
- ◆ Can set and save 5 groups of multi-stage centrifugation program.
- ◆ Time display:year,month, day, hour, minute, second, easy to trace the usage record.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, support setting free-stop.
- ◆ Curve display:Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.
- ◆ Password lock function:Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure,overheating. Sound and text prompt at the same time and display solutions.
- ◆ With electronic manual, never lost, easy to use.
- ◆ Large torque variable frequency motor, flexible shaft,three-stage vibration reduction.
- ◆ Imported compressor unit, CFC-free,heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ Run up to 18 400ml-blood bags or 6 2L-bottles at a time.
- ◆ Run up to 384pcs vacuum blood collection tubes at a time.
- ◆ Multi-level permission assignment;Intelligent management platform;Multifunctional Control Operating System;Centrifugal record traceability.
- ◆ Optional ECO energy saving module

## ADVANTAGES



**Program setting:** By setting the program group, the reproducibility of the centrifugation work can be realized. Just call the corresponding program number to realize the complete set of centrifugal experiments (speed, time, temperature and other information) to meet the diversification of centrifugation experiments.



**User management:** User information is displayed on the full screen, which is convenient for unified management of users. Passwords and usage rights can be set separately for different user usage scenarios. Users can use electronic identification to quickly unlock the device, which is simple and convenient to operate.



**Centrifugation mode:** used to set conventional centrifugation and multi-stage centrifugation, 5-stage centrifugation can be set to meet the requirements of diversified experiments.



**Curve display interface:** the experimental data such as speed, temperature, centrifugal force, etc. are displayed in the form of curves, and the data changes during operation are more intuitive



**Operation log:** Accurately record the data of each centrifugation work such as time, user, parameters and other related information, all operations automatically generate a log and save it for more than five years.

## TECHNICAL PARAMETER

Model	Max Speed	Speed Accuracy	Time Range	Noise
LD-8M	8000rpm	$\pm 20$ r/min	1-99h59min59s	$\leq 65$ dB (A)
	Max RCF	Temp. Range	Dimension (mm)	Weight
	14500 $\times$ g	-20 $^{\circ}\text{C}$ ~ 40 $^{\circ}\text{C}$	960 $\times$ 880 $\times$ 950	560Kg
	Max Capacity	Temp. Accuracy	Power Supply (AC)	Power
	6 $\times$ 2400ml /18 $\times$ 400ml blood bag	$\pm 1^{\circ}\text{C}$	380V 50HZ 35A	7.5KW

## ROTOR PARAMETER

No.1



Rotor: Fixed Angle Rotor  
Capacity: 6 $\times$ 1000ml  
Max Speed: 8000r/min  
Max RCF: 14500 $\times$ g  
Tube Size:  $\Phi 97 \times 166$ mm

No.2



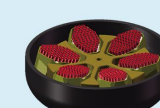
Rotor: Swing Out Rotor  
Capacity: 6 $\times$ 2400ml  
Max Speed: 4500r/min  
Max RCF: 7095 $\times$ g

No.3



Rotor: Fixed Angle Rotor  
Capacity: 6 $\times$ 500ml  
Max Speed: 8000r/min  
Max RCF: 11860 $\times$ g  
Tube Size:  $\Phi 74 \times 170$ mm

No.4



Rotor: Swing Out Rotor  
Capacity: 384pcs blood tube  
(Can choose Adaptor 162 $\times$ 15ml/60 $\times$ 50ml)  
Max Speed: 4000r/min  
Max RCF: 4710 $\times$ g  
Tube Size:  $\Phi 13 \times 75 \sim 100$ mm

## LD-6M Floorstanding Low Speed Large Capacity Refrigerated Centrifuge



### FEATURES

- ◆ Variable frequency motor drive, microprocessor control.
- ◆ LCD&LED dual-screen display.
- ◆ Can store 12 programs, 40 acceleration and deceleration stages.
- ◆ Various protections such as over-speed, over-temperature and imbalance; Automatic fault diagnosis.
- ◆ Electronic lid lock, controlled by independent motor.
- ◆ Imported compressor unit, CFC-free, heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Imported famous brand frequency conversion controller controls speed accurately and has long life.
- ◆ All steel housing and stainless steel chamber to ensure safety.
- ◆ Run up to 210pcs blood tubes at a time.

### TECHNICAL PARAMETER

Model	LD-6M
Max Speed	6000rpm
Max RCF	6880×g
Max Capacity	6×1000ml
Speed Accuracy	$\pm 10$ r/min
Temperature Range	-20°C ~ 40°C
Temperature Accuracy	$\pm 1^{\circ}\text{C}$
Time Range	1min-99h59min/Inching
Dimension (mm)	850×730×930
Power Supply (AC)	220V 50HZ 30A
Noise	$\leq 65\text{dB}$ (A)
Net Weight	260Kg
Power	5KW

### ROTOR PARAMETER

No.1



Rotor: Fixed Angle Rotor  
Capacity: 6×500ml  
Max Speed: 6000r/min  
Max RCF: 6880×g  
Tube Size:  $\Phi 74 \times 170\text{mm}$

No.2

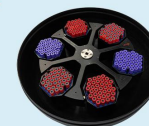


Rotor: Swing Out Rotor  
Capacity: 6×1000ml  
Max Speed: 4500r/min  
Max RCF: 5880×g  
Tube Size:  $\Phi 100 \times 175\text{mm}$

#### Adaptor

6\*750ml  
6\*500ml flat bottom  
6\*500ml conical bottom  
6\*250ml  
18\*100ml  
30\*50ml  
84\*15ml  
60\*50ml(Special holder)

No.3



Rotor: Swing Out Rotor  
Capacity: 210×2~7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 5180×g  
Tube Size:  $\Phi 13 \times 75 \sim 100\text{mm}$

#### Adaptor

6\*750ml  
6\*500ml flat bottom  
6\*250ml  
24\*100ml  
42\*50ml  
84\*15ml

# LD-5M Floorstanding Low Speed Refrigerated Centrifuge



## FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Intelligent status display,real-time and real values.
- ◆ Can set and save 5 groups of multi-stage centrifugation program.
- ◆ Time display:year,month, day, hour, minute, second, easy to trace the usage record.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ Curve display:Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.
- ◆ Password lock function:Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure, overheating, Sound and text prompt at the same time and display solutions.
- ◆ With electronic manual, never lost, easy to use.

## ADVANTAGES

### ◆ Imbalance Detection

Three axis gyroscope detects imbalance in the whole spin process.

### ◆ PID dynamically control temperature

PID automatically and dynamicaly control temperature,more accurate temp. control.

### ◆ Large Storage Space

Stores up to 1000 programs and thousands of run histories,which can be exported as PDF file.

## TECHNICAL PARAMETER

Model	LD-5M
Max Speed	5000rpm
Max RCF	5200×g
Max Capacity	4×800ml
Speed Accuracy	±10 r/min
Temperature Range	-20°C ~ 40°C
Temperature Accuracy	±1 °C
Time Range	1s-99h59m59s
Dimension (mm)	680×620×840
Power Supply (AC)	220V 50HZ 15A
Noise	≤60dB (A)
Net Weight	150Kg
Power	1.8KW
Acceleration/Deceleration	40 stages
Program Storage	1000 Programs
Compressor	Imported Compressor Unit
Motor	Variable Frequency Motor
Temperature Control System	Heating and cooling double-loop Control
Display	LCD Touch Screen
ECO	Have

## ROTOR PARAMETER

No.1



Rotor: Swing Out Rotor  
Capacity: 4×100ml  
Max Speed: 5000r/min  
Max RCF: 4650×g  
Tube Size: Φ38×114mm



Rotor: Swing Out Rotor  
Capacity: 4×50ml  
Max Speed: 5000r/min  
Max RCF: 4650×g  
Tube Size: Φ30×116mm

No.2



Rotor: Swing Out Rotor  
Capacity: 32×15ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ17×121mm

No.2



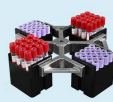
Rotor: Swing Out Rotor  
Capacity: 8×50ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ30×116mm



Rotor: Swing Out Rotor  
Capacity: 8×100ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ38×114mm

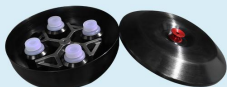


Rotor: Swing Out Rotor  
Capacity: 48×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 64×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm

No.3

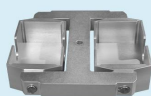


Rotor: Swing Out Rotor  
Capacity: 4×250ml  
Max Speed: 5000r/min  
Max RCF: 5200×g  
Tube Size: Φ63×111mm

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d  
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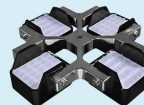
Capacity	Tube Size
8×50ml	Φ29.5×116mm
4×100ml	Φ38×114mm
36×10ml	Φ16.5×86~110mm
40×7ml	Φ13×100mm
20×15ml	Φ17×121mm

No.4



Rotor: Microplate Rotor  
Capacity: 2×3×96holex0.2ml  
Max Speed: 4000r/min  
Max RCF: 1970×g  
max: 128×87×60mm

No.5



Rotor: Swing Out Rotor  
Capacity: 100×1.5ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ11×42mm



Rotor: Swing Out Rotor  
Capacity: 148×5ml RIA tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Microplate Rotor  
Capacity: 4×2×96holex0.2ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
max: 28×87×60mm

No.6



Rotor: Swing Out Rotor  
Capacity: 4×750ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ100×141mm



Adaptor  
Capacity: 12×100ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ38×114mm



Adaptor  
Capacity: 20×50ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ29×116mm



Adaptor  
Capacity: 56×15ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ17×121mm

No.5



Rotor: Swing Out Rotor  
Capacity: 4×500ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ80×137mm



Adaptor(aerosol tight)  
Capacity: 16×50ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ29×116mm



Adaptor(aerosol tight)  
Capacity: 36×15ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ17×121mm

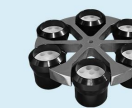


Adaptor(aerosol tight)  
Capacity: 76×2~7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm

No.6



Adaptor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 6×250ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ63×111mm



Adaptor  
Capacity: 30×15ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ17×121mm



Adaptor  
Capacity: 60×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ13×75~100mm

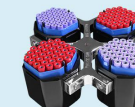
No.8



Rotor: Swing Out Rotor  
Capacity: 4×800ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Adaptor: 28x50ml  
Tube Size: Φ29×116mm



Adaptor  
Capacity: 56×15ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ12×121mm



Adaptor  
Capacity: 140×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ13×75~100mm



Adaptor  
Capacity: 16×100ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ38×114mm

# DD-6000 Floorstanding Low Speed Large Capacity Centrifuge



## FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Intelligent status display,real-time and real values.
- ◆ Stores up to 1000 programs and 1000 run histories.
- ◆ Can set and save 5 groups of multi-stage centrifugation program.
- ◆ Time display:year,month, day, hour, minute, second, easy to trace the usage record.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvelly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ Password lock function:Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ Various protections such as door, overspeed, overtemperature, overpressure and overheating, sound and text prompt at the same time and display solutions.
- ◆ Imbalance detection:Three axis gyroscope detects imbalance in the whole spin process.
- ◆ With electronic manual, never lost, easy to use.

## TECHNICAL PARAMETER

Model	DD-6000
Max Speed	6000rpm
Max RCF	5200×g
Max Capacity	4×800ml
Speed Accuracy	±10 r/min
Time Range	1s-99h59m59s
Dimension (mm)	680×620×840
Power Supply (AC)	220V 50HZ 15A
Noise	≤60dB (A)
Weight	135Kg
Power	1.1KW
Acceleration/deceleration Rate	40 stages
Program Storage	1000 programs
Motor	Variable Frequency Motor
Imbalance Detection	Three axis gyroscope
Display	LCD Touch Screen

## ROTOR PARAMETER

No.1



Rotor: Swing Out Rotor  
Capacity: 4×100ml  
Max Speed: 5000r/min  
Max RCF: 4650×g  
Tube Size: Φ38×114mm



Rotor: Swing Out Rotor  
Capacity: 4×50ml  
Max Speed: 5000r/min  
Max RCF: 4650×g  
Tube Size: Φ30×116mm

No.2



Rotor: Swing Out Rotor  
Capacity: 32×15ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ17×121mm

No.2



Rotor: Swing Out Rotor  
Capacity: 8×50ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ30×116mm



Rotor: Swing Out Rotor  
Capacity: 8×100ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ38×114mm

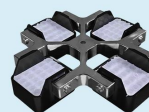


Rotor: Swing Out Rotor  
Capacity: 48×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 64×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm

No.5



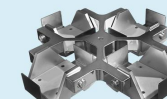
Rotor: Swing Out Rotor  
Capacity: 100×1.5ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ11×42mm



Rotor: Swing Out Rotor  
Capacity: 148×5ml RIA tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ13×75~100mm

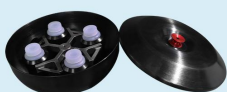


Rotor: Swing Out Rotor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ13×75~100mm



Rotor: Microplate Rotor  
Capacity: 4×2×96holex0.2ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ128×87×60mm

No.3

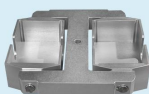


Rotor: Swing Out Rotor  
Capacity: 4×250ml  
Max Speed: 5000r/min  
Max RCF: 5200×g  
Tube Size: Φ63×111mm

A  
d  
a  
p  
t  
o  
r

Capacity	Tube Size
8×50ml	Φ29.5×116mm
4×100ml	Φ38×114mm
36×10ml	Φ16.5×86~110mm
40×7ml blood tube	Φ13×100mm
20×15ml	Φ17×121mm

No.4



Rotor: Microplate Rotor  
Capacity: 2×3×96holex0.2ml  
Max Speed: 4000r/min  
Max RCF: 1970×g  
Tube Size: Φ128×87×60mm

No.6



Rotor: Swing Out Rotor  
Capacity: 4×750ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ100×141mm



Adaptor  
Capacity: 12×100ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ38×114mm



Adaptor  
Capacity: 20×50ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ29×116mm



Adaptor  
Capacity: 56×15ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ17×121mm

No.5



Rotor: Swing Out Rotor  
Capacity: 4×500ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ80×137mm



Adaptor(aerosol tight)  
Capacity: 16×50ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ29×116mm



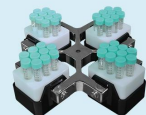
Adaptor(aerosol tight)  
Capacity: 36×15ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ17×121mm



Adaptor(aerosol tight)  
Capacity: 76×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ13×75~100mm



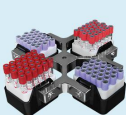
Rotor: Swing Out Rotor  
Capacity: 20×50ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ29.5×116mm



Rotor: Swing Out Rotor  
Capacity: 40×15ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ17×121mm



Rotor: Swing Out Rotor  
Capacity: 80×10ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ15×100mm



Rotor: Swing Out Rotor  
Capacity: 112×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ13×75~100mm

No.6



Adaptor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 6×250ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ63×111mm



Adaptor  
Capacity: 30×15ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ17×121mm



Adaptor  
Capacity: 60×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ13×75~100mm

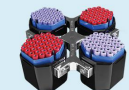
No.8



Rotor: Swing Out Rotor  
Capacity: 4×800ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Adaptor: 28×50ml  
Tube Size: Φ29×116mm



Adaptor  
Capacity: 56×15ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ12×121mm



Adaptor  
Capacity: 140×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ13×75~100mm



Adaptor  
Capacity: 16×100ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ38×114mm

No.9



Rotor: Fixed Angle Rotor  
Capacity: 6×50ml  
Max Speed: 6000r/min  
Max RCF: 5120×g  
Tube Size: Φ29×116mm



Rotor: Fixed Angle Rotor  
Capacity: 12×15ml  
Max Speed: 6000r/min  
Max RCF: 5120×g  
Tube Size: Φ17×121mm

# DD-5000 Floorstanding Low Speed Large Capacity Centrifuge



## FEATURES

- ◆ Variable frequency motor drive, microprocessor control.
- ◆ LCD&LED dual-screen display.
- ◆ Intelligent status display, real-time and real values.
- ◆ Electronic lid lock, imbalance protection.
- ◆ Automatic fault diagnosis.
- ◆ Can store 12 programs. 40 acceleration and deceleration stages.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.
- ◆ Imported famous brand frequency conversion controller controls speed accurately and has long life.
- ◆ All steel housing and stainless steel chamber to ensure safety.
- ◆ Imbalance detection: Three axis gyroscope detects imbalance in the whole spin process.

## TECHNICAL PARAMETER

Model	DD-5000
Max Speed	5000rpm
Max RCF	5200×g
Max Capacity	4×750ml
Speed Accuracy	±10 r/min
Time Range	1min-99h59min/Inching
Dimension (mm)	650×550×840
Power Supply (AC)	220V 50HZ 15A
Noise	≤60dB (A)
Weight	135Kg
Power	1.1KW
Acceleration/deceleration Rate	40 stages
Program Storage	12 programs
Motor	Variable Frequency Motor
Imbalance Detection	Three axis gyroscope
Display	LCD&LED

## ROTOR PARAMETER

No.1



Rotor: Swing Out Rotor  
Capacity: 4×100ml  
Max Speed: 5000r/min  
Max RCF: 4650×g  
Tube Size: Φ38×114mm



Rotor: Swing Out Rotor  
Capacity: 4×50ml  
Max Speed: 5000r/min  
Max RCF: 4650×g  
Tube Size: Φ30×116mm

No.2



Rotor: Swing Out Rotor  
Capacity: 32×15ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ17×121mm



No.2



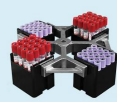
Rotor: Swing Out Rotor  
Capacity: 8×50ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ30×116mm



Rotor: Swing Out Rotor  
Capacity: 8×100ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ38×114mm

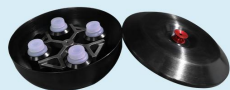


Rotor: Swing Out Rotor  
Capacity: 48×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 64×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm

No.3

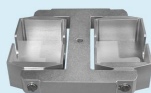


Rotor: Swing Out Rotor  
Capacity: 4×250ml  
Max Speed: 5000r/min  
Max RCF: 5200×g  
Tube Size: Φ63×111mm

A  
d  
a  
p  
t  
o  
r

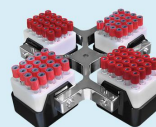
Capacity	Tube Size
8×50ml	Φ29.5×116mm
4×100ml	Φ38×114mm
36×10ml	Φ16.5×86~110mm
40×7ml blood tube	Φ13×100mm
20×15ml	Φ17×121mm

No.4

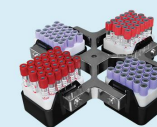


Rotor: Microplate Rotor  
Capacity: 2×3×96holes  
Max Speed: 4000r/min  
Max RCF: 1970×g  
max: 128×87×60mm

No.5



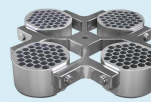
Rotor: Swing Out Rotor  
Capacity: 80×10ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ15×100mm



Rotor: Swing Out Rotor  
Capacity: 112×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ13×75~100mm



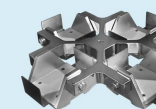
Rotor: Swing Out Rotor  
Capacity: 100×1.5ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ11×42mm



Rotor: Swing Out Rotor  
Capacity: 148×5ml RIA tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ13×75~100mm



Rotor: Microplate Rotor  
Capacity: 4×2×96holes  
Max Speed: 4000r/min  
Max RCF: 3400×g  
max: 128×87×60mm

No.5



Rotor: Swing Out Rotor  
Capacity: 4×500ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ80×137mm



Adaptor(aerosol tight)  
Capacity: 16×50ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ29×116mm



Adaptor(aerosol tight)  
Capacity: 36×15ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ17×121mm



Adaptor(aerosol tight)  
Capacity: 76×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 20×50ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ29.5×116mm



Rotor: Swing Out Rotor  
Capacity: 40×15ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ17×121mm

No.6



Rotor: Swing Out Rotor  
Capacity: 4×750ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ100×141mm



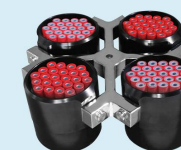
Adaptor  
Capacity: 12×100ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ38×114mm



Adaptor  
Capacity: 20×50ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ29×116mm



Adaptor  
Capacity: 56×15ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ17×121mm



Adaptor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ13×75~100mm

# DD-4000 Floorstanding Low Speed Large Capacity Centrifuge



## FEATURES

- ◆ Variable frequency motor drive, microprocessor control.
- ◆ LCD&LED dual-screen display.
- ◆ Intelligent status display, real-time and real values.
- ◆ Electronic lid lock, imbalance protection.
- ◆ Automatic fault diagnosis.
- ◆ Can store 12 programs. 40 acceleration and deceleration stages.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.
- ◆ Imported famous brand frequency conversion controller controls speed accurately and has long life.
- ◆ All steel housing and stainless steel chamber to ensure safety.
- ◆ Imbalance detection: Three axis gyroscope detects imbalance in the whole spin process.

## TECHNICAL PARAMETER

Model	DD-4000
Max Speed	4000rpm
Max RCF	3580×g
Max Capacity	4×1000ml
Speed Accuracy	±10 r/min
Time Range	1min-99h59min/Inching
Dimension (mm)	600×700×900
Power Supply (AC)	220V 50HZ 15A
Noise	≤60dB (A)
Weight	160Kg
Power	1.1KW
Acceleration/deceleration Rate	40 stages
Program Storage	12 programs
Motor	Variable Frequency Motor
Imbalance Detection	Three axis gyroscope
Display	LCD&LED

## ROTOR PARAMETER

No.1



Rotor: Swing Out Rotor  
Capacity: 4×1000ml  
Max Speed: 3600r/min  
Max RCF: 3280×g  
Tube Size: Φ100×175mm

No.2



Rotor: Swing Out Rotor  
Capacity: 6×500ml  
Max Speed: 3600r/min  
Max RCF: 3030×g  
Tube Size: Φ80×137mm

No.3



Rotor: Swing Out Rotor  
Capacity: 4×500ml  
Max Speed: 4000r/min  
Max RCF: 3400×g  
Tube Size: Φ80×137mm  
Adaptors same to DD-5000

No.4



Rotor: Swing Out Rotor  
Capacity: 6×250ml  
Max Speed: 4000r/min  
Max RCF: 3580×g  
Tube Size: Φ63×111mm  
Adaptors same to DD-6000

# TGL-23 Benchtop High Speed Multi-functional Refrigerated Centrifuge



## FEATURES

- ◆ Servo door lock, double lock head. Two hydraulic rods support the lid.
- ◆ PID dynamic temperature control, fast and accurate.
- ◆ Imported compressor unit, CFC-free, heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ Temperature range from  $-20^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  in  $1^{\circ}\text{C}$  steps
- ◆ RFID automatic rotor identification. Without rotor spin, centrifuge can instantly identify rotor specifications, max speed, max RCF, production date, usage and other information, which is convenient for users to manage rotors.
- ◆ Imbalance detection. The three-axis gyroscope is used to monitor the vibration state of the running spindle in real time, which can accurately detect abnormal vibration caused by liquid leakage or unbalanced loading. Once abnormal vibration is detected, it will take the initiative to stop the machine immediately and activate imbalance alarm.
- ◆ Variable frequency motor, maintenance-free;
- ◆ LCD touch screen with simple & clear interface for viewing and setting parameters.
- ◆ All steel housing, 316 stainless steel chamber.
- ◆ Stores up to 1000 programs, with password protection.
- ◆ Stores up to 1000 run histories, which is convenient for users to trace records.
- ◆ Can set password to the centrifuge to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Curve display: Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ With ECO energy-saving module.

## TECHNICAL PARAMETER

Model	TGL-23
Max Speed	23000rpm
Max RCF	36960×g
Max Capacity	4×750ml
Speed Accuracy	$\pm 10$ r/min
Temperature Range	$-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$
Temperature Accuracy	$\pm 1^{\circ}\text{C}$
Time Range	1s-99h59min59s
Dimension (mm)	600×680×420
Power Supply (AC)	220V 50HZ 15A
Noise	$\leq 56\text{dB (A)}$
Weight	108Kg
Power	1.5KW
RFID Automatic rotor identification	Have
Multi-stage centrifugation	Have
Compressor	Imported Compressor Unit
Motor	Variable Frequency Motor
Temperature Control System	PID
Display	LCD touch screen
ECO	Have

## ROTOR PARAMETER

No.1	No.2	No.3-1	No.3-2	No.4-1	No.4-2
					
Rotor: Fixed Angle Rotor Capacity: 12×1.5/2.2ml Max Speed: 23000r/min Max RCF: 36960×g Tube Size: $\Phi 11 \times 42\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 12×5ml Max Speed: 18000r/min Max RCF: 26260×g Tube Size: $\Phi 14 \times 54\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 24×1.5/2.2ml Max Speed: 16500r/min Max RCF: 26360×g Tube Size: $\Phi 11 \times 42\text{mm}$	Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24×1.5ml/2.2ml Max Speed: 18000r/min Max RCF: 31370×g Tube Size: $\Phi 11 \times 42\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 12×10ml Max Speed: 15500r/min Max RCF: 22100×g Tube Size: $\Phi 16 \times 86\text{mm}$	Rotor: Fixed Angle Rotor Capacity: 36×1.5/2.2ml Max Speed: 15000r/min Max RCF: 21760×g Tube Size: $\Phi 11 \times 42\text{mm}$

No.5-1

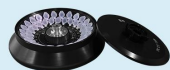


Rotor: Fixed Angle Rotor  
Capacity: 6×50ml Conical Bottom  
Max Speed: 13000r/min  
Max RCF: 18420×g  
Tube Size: Φ29×116mm



Rotor: Fixed Angle Rotor  
Capacity: 6×50ml Round Bottom  
Max Speed: 13500r/min  
Max RCF: 19865×g  
Tube Size: Φ29×111mm

No.5-2



Rotor: Fixed Angle Rotor  
Capacity: 48×1.5/2.2ml  
Max Speed: 13000r/min  
Max RCF: 18515×g  
Tube Size: Φ11×42mm

No.6-1



Rotor: Fixed Angle Rotor  
Capacity: 4×100ml  
Max Speed: 12000r/min  
Max RCF: 15895×g  
Tube Size: Φ37×123mm

No.9



Adaptor(aerosol tight)  
Capacity: 16×50ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ29×116mm



Adaptor(aerosol tight)  
Capacity: 36×15ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ17×121mm



Adaptor(aerosol tight)  
Capacity: 76×2-7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 20×50ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ29.5×116mm

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8×50ml Conical Bottom  
Max Speed: 12000r/min  
Max RCF: 16695×g  
Tube Size: Φ29×116mm



Rotor: Fixed Angle Rotor  
Capacity: 8×50ml Round Bottom  
Max Speed: 12000r/min  
Max RCF: 15890×g  
Tube Size: Φ29×111mm

No.6-3



Rotor: Fixed Angle Rotor  
Capacity: 12×15ml  
Max Speed: 13000r/min  
Max RCF: 18650×g  
Tube Size: Φ17×121mm

No.7



Rotor: Microplate Rotor  
Capacity: 2×3×96hole×0.2ml  
Max Speed: 4000r/min  
Max RCF: 1970×g  
max: 128×87×60mm

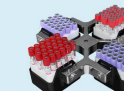
No.9



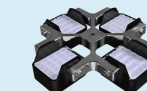
Rotor: Swing Out Rotor  
Capacity: 40×15ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ17×121mm



Rotor: Swing Out Rotor  
Capacity: 80×10ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ15×100mm



Rotor: Swing Out Rotor  
Capacity: 112×2~7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 100×1.5ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ11×42mm

No.8



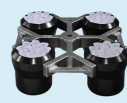
Rotor: Swing Out Rotor  
Capacity: 4×250ml  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ63×121mm



Adaptor  
Capacity: 8×50ml  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ29.5×116mm

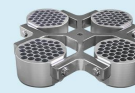


Adaptor  
Capacity: 20×15ml  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ17×121mm

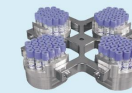


Adaptor  
Capacity: 36×10ml  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ16.5×86~110mm

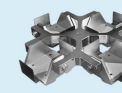
No.9



Rotor: Swing Out Rotor  
Capacity: 148×5ml RIA tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Microplate Rotor  
Capacity: 4×2×96hole×0.2ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
max: 128×87×60mm

No.10

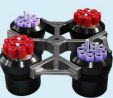


Rotor: Swing Out Rotor  
Capacity: 4×750ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ100×141mm



Adaptor  
Capacity: 12×100ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ38×114mm

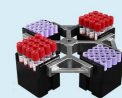
No.8



Adaptor  
Capacity: 40×7ml blood tube  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ13×100mm



Rotor: Swing Out Rotor  
Capacity: 48×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm



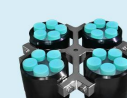
Rotor: Swing Out Rotor  
Capacity: 64×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm

No.9



Rotor: Swing Out Rotor  
Capacity: 4×500ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ80×137mm

No.10



Adaptor  
Capacity: 20×50ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ29×116mm



Adaptor  
Capacity: 56×15ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ17×121mm



Adaptor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ13×75~100mm

No.11



Rotor: Fixed Angle Rotor  
Capacity: 6×100ml  
Max Speed: 10000r/min  
Max RCF: 12060×g  
Tube Size: Φ37×123mm

No.12



Rotor: Fixed Angle Rotor  
Capacity: 8×15ml  
Max Speed: 14500r/min  
Max RCF: 18570×g

# TGL-21 Benchtop High Speed Multi-functional Refrigerated Centrifuge



## FEATURES

- ◆ Servo door lock, double lock head. Two hydraulic rods support the lid.
- ◆ PID dynamic temperature control, fast and accurate.
- ◆ Imported compressor unit, CFC-free, heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ Temperature range from  $-20^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  in  $1^{\circ}\text{C}$  steps
- ◆ RFID automatic rotor identification. Without rotor spin, centrifuge can instantly identify rotor specifications, max speed, max RCF, production date, usage and other information, which is convenient for users to manage rotors.
- ◆ Imbalance detection. The three-axis gyroscope is used to monitor the vibration state of the running spindle in real time, which can accurately detect abnormal vibration caused by liquid leakage or unbalanced loading. Once abnormal vibration is detected, it will take the initiative to stop the machine immediately and activate imbalance alarm.
- ◆ Variable frequency motor, maintenance-free;
- ◆ LCD touch screen with simple & clear interface for viewing and setting parameters.
- ◆ All steel housing, 316 stainless steel chamber.
- ◆ Stores up to 1000 programs, with password protection.
- ◆ Stores up to 1000 run histories, which is convenient for users to trace records.
- ◆ Can set password to the centrifuge to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Curve display: Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvily slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ With ECO energy-saving module.

## TECHNICAL PARAMETER

Model	TGL-21
Max Speed	21000rpm
Max RCF	31370×g
Max Capacity	4×750ml
Speed Accuracy	$\pm 10$ r/min
Temperature Range	$-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$
Temperature Accuracy	$\pm 1^{\circ}\text{C}$
Time Range	1s-99h59min59s
Dimension (mm)	600×680×420
Power Supply (AC)	220V 50HZ 15A
Noise	$\leq 56\text{dB}$ (A)
Weight	108Kg
Power	1.5KW
RFID Automatic rotor identification	Have
Multi-stage centrifugation	Have
Compressor	Imported Compressor Unit
Motor	Variable Frequency Motor
Temperature Control System	PID
Display	LCD touch screen
ECO	Have

## ROTOR PARAMETER

<p>No.1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12×1.5/2.2ml Max Speed: 21000r/min Max RCF: 30810×g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12×5ml Max Speed: 17000r/min Max RCF: 23460×g Tube Size: <math>\Phi 14 \times 54\text{mm}</math></p>	<p>No.3-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24×1.5/2.2ml Max Speed: 16500r/min Max RCF: 26360×g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.3-2</p>  <p>Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24×1.5ml/2.2ml Max Speed: 18000r/min Max RCF: 31370×g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.4-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12×10ml Max Speed: 15000r/min Max RCF: 20800×g Tube Size: <math>\Phi 16 \times 86\text{mm}</math></p>	<p>No.4-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 36×1.5/2.2ml Max Speed: 15000r/min Max RCF: 21760×g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>
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No.5-1

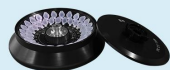


Rotor: Fixed Angle Rotor  
Capacity: 6×50ml Conical Bottom  
Max Speed: 13000r/min  
Max RCF: 18420×g  
Tube Size: Φ29×116mm



Rotor: Fixed Angle Rotor  
Capacity: 6×50ml Round Bottom  
Max Speed: 13000r/min  
Max RCF: 18420×g  
Tube Size: Φ29×111mm

No.5-2



Rotor: Fixed Angle Rotor  
Capacity: 48×1.5/2.2ml  
Max Speed: 13000r/min  
Max RCF: 18515×g  
Tube Size: Φ11×42mm

No.6-1



Rotor: Fixed Angle Rotor  
Capacity: 4×100ml  
Max Speed: 11000r/min  
Max RCF: 13350×g  
Tube Size: Φ37×123mm

No.9



Adaptor(aerosol tight)  
Capacity: 16×50ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ29×116mm



Adaptor(aerosol tight)  
Capacity: 36×15ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ17×121mm



Adaptor(aerosol tight)  
Capacity: 76×2-7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 20×50ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ29.5×116mm

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8×50ml Conical Bottom  
Max Speed: 11000r/min  
Max RCF: 13350×g  
Tube Size: Φ29×116mm



Rotor: Fixed Angle Rotor  
Capacity: 8×50ml Round Bottom  
Max Speed: 11000r/min  
Max RCF: 14030×g  
Tube Size: Φ29×111mm

No.6-3



Rotor: Fixed Angle Rotor  
Capacity: 12×15ml  
Max Speed: 12500r/min  
Max RCF: 17240×g  
Tube Size: Φ17×121mm

No.7



Rotor: Microplate Rotor  
Capacity: 2×3×96hole×0.2ml  
Max Speed: 4000r/min  
Max RCF: 1970×g  
max: 128×87×60mm

No.9



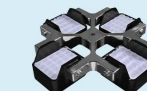
Rotor: Swing Out Rotor  
Capacity: 40×15ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ17×121mm



Rotor: Swing Out Rotor  
Capacity: 80×10ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ15×100mm



Rotor: Swing Out Rotor  
Capacity: 112×2~7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 100×1.5ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ11×42mm

No.8



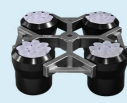
Rotor: Swing Out Rotor  
Capacity: 4×250ml  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ63×121mm



Adaptor  
Capacity: 8×50ml  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ29.5×116mm

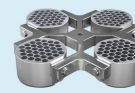


Adaptor  
Capacity: 20×15ml  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ17×121mm

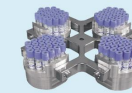


Adaptor  
Capacity: 36×10ml  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ16.5×86~110mm

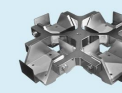
No.9



Rotor: Swing Out Rotor  
Capacity: 148×5ml RIA tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ13×75~100mm



Rotor: Microplate Rotor  
Capacity: 4×2×96hole×0.2ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
max: 128×87×60mm

No.10

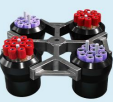


Rotor: Swing Out Rotor  
Capacity: 4×750ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ100×141mm



Adaptor  
Capacity: 12×100ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ38×114mm

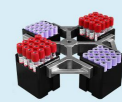
No.8



Adaptor  
Capacity: 40×7ml blood tube  
Max Speed: 4500r/min  
Max RCF: 3720×g  
Tube Size: Φ13×100mm

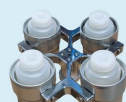


Rotor: Swing Out Rotor  
Capacity: 48×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm



Rotor: Swing Out Rotor  
Capacity: 64×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100×g  
Tube Size: Φ13×75~100mm

No.9



Rotor: Swing Out Rotor  
Capacity: 4×500ml  
Max Speed: 4200r/min  
Max RCF: 3550×g  
Tube Size: Φ80×137mm

No.10



Adaptor  
Capacity: 20×50ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ29×116mm



Adaptor  
Capacity: 56×15ml  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ17×121mm



Adaptor  
Capacity: 96×2~7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3500×g  
Tube Size: Φ13×75~100mm

No.11



Rotor: Fixed Angle Rotor  
Capacity: 6×100ml  
Max Speed: 10000r/min  
Max RCF: 12060×g  
Tube Size: Φ37×123mm

No.12



Rotor: Fixed Angle Rotor  
Capacity: 8×15ml  
Max Speed: 14500r/min  
Max RCF: 18570×g

# TGL-19 Benchtop High Speed Multi-functional Refrigerated Centrifuge



## FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Intelligent status display,real-time and real values.
- ◆ PID dynamic temperature control, fast and accurate.
- ◆ Imported compressor unit, CFC-free,heating and cooling double-loop temperature control, ±1°C high temperature accuracy.
- ◆ Temperature range from -20°C to 40°C in 1°C steps
- ◆ RFID automatic rotor identification. Without rotor spin,centrifuge can instantly identify rotor specifications, max speed, max RCF, production date, usage and other information, which is convenient for users to manage rotors.
- ◆ Imbalance detection.Three axis gyroscope detects imbalance in the whole spin process.
- ◆ Variable frequency motor,maintenance-free;
- ◆ Stores up to 1000 programs, with password protection.
- ◆ Stores up to 1000 run histories, which is convenient for users to trace records.
- ◆ Can set password to the centrifuge to prevent misoperation.
- ◆ Curve display:Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure, overheating. Sound and text prompt at the same time and display solutions.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
TGL-19	19000rpm	4×500ml	±10 r/min	1s-99h59min59s	AC 220V 50HZ 15A	≤56dB (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	29990×g	±1 °C	-20°C ~ 40°C	600×680×420	1.5KW	108Kg

## ROTOR PARAMETER

 <p><b>No.1</b> Rotor: Fixed Angle Rotor Capacity: 12×1.5/2.2ml Max Speed: 19000r/min Max RCF: 25220×g Tube Size: Φ11×42mm</p>	 <p><b>No.2</b> Rotor: Fixed Angle Rotor Capacity: 12×5ml Max Speed: 17000r/min Max RCF: 23460×g Tube Size: Φ14×54mm</p>	 <p><b>No.3-1</b> Rotor: Fixed Angle Rotor Capacity: 24×1.5/2.2ml Max Speed: 16000r/min Max RCF: 24790×g Tube Size: Φ11×42mm</p>	 <p><b>No.3-2</b> Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24×1.5/2.2ml Max Speed: 17600r/min Max RCF: 29990×g Tube Size: Φ11×42mm</p>	 <p><b>No.4-1</b> Rotor: Fixed Angle Rotor Capacity: 12×10ml Max Speed: 14000r/min Max RCF: 18120×g Tube Size: Φ16×86mm</p>	 <p><b>No.4-2</b> Rotor: Fixed Angle Rotor Capacity: 36×1.5/2.2ml Max Speed: 14000r/min Max RCF: 18960×g Tube Size: Φ11×42mm</p>
 <p><b>No.5-1</b> Rotor: Fixed Angle Rotor Capacity: 6×50ml Conical Bottom Max Speed: 13000r/min Max RCF: 18420×g Tube Size: Φ29×116mm</p>	 <p><b>No.5-2</b> Rotor: Fixed Angle Rotor Capacity: 6×50ml Round Bottom Max Speed: 13000r/min Max RCF: 18420×g Tube Size: Φ29×111mm</p>	 <p><b>No.6-1</b> Rotor: Fixed Angle Rotor Capacity: 48×1.5/2.2ml Max Speed: 13000r/min Max RCF: 18520×g Tube Size: Φ11×42mm</p>	 <p><b>No.6-2</b> Rotor: Fixed Angle Rotor Capacity: 4×100ml Max Speed: 11000r/min Max RCF: 13350×g Tube Size: Φ29×123mm</p>	 <p><b>No.6-3</b> Rotor: Fixed Angle Rotor Capacity: 8×50ml Conical Bottom Max Speed: 11000r/min Max RCF: 14030×g Tube Size: Φ29×116mm</p>	
 <p><b>No.6-2</b> Rotor: Fixed Angle Rotor Capacity: 8×50ml Round Bottom Max Speed: 11000r/min Max RCF: 13350×g Tube Size: Φ29×111mm</p>	 <p><b>No.6-3</b> Rotor: Fixed Angle Rotor Capacity: 12×15ml Max Speed: 12000r/min Max RCF: 15890×g Tube Size: Φ17×121mm</p>	 <p><b>No.7</b> Rotor: Fixed Angle Rotor Capacity: 6×10ml Max Speed: 4000r/min Max RCF: 18980×g Tube Size: Φ16×86mm</p>	 <p><b>No.8</b> Rotor: Microplate Rotor Capacity: 2×3×96hole×0.2ml Max Speed: 4000r/min Max RCF: 1970×g max: 128×87×60mm</p>	 <p><b>No.11</b> Rotor: Fixed Angle Rotor Capacity: 6×100ml Max Speed: 10000r/min Max RCF: 12060×g Tube Size: Φ37×123mm</p>	
 <p><b>No.9</b> Rotor: Swing Out Rotor Capacity: 4×250ml Max Speed: 4500r/min Max RCF: 3720×g Tube Size: Φ63×121mm</p>	 <p><b>Adaptor</b> Capacity: 8×50ml Max Speed: 4500r/min Max RCF: 3720×g Tube Size: Φ29.5×116mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 48×2~7ml blood tube Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ13×75~100mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 64×2~7ml blood tube Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ13×75~100mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 4×500ml Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ80×137mm</p>	
 <p><b>Adaptor(aerosol tight)</b> Capacity: 16×50ml Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ29×116mm</p>	 <p><b>Adaptor(aerosol tight)</b> Capacity: 36×15ml Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ17×121mm</p>	 <p><b>Adaptor(aerosol tight)</b> Capacity: 76×2~7ml blood tube Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ13×75~100mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 20×50ml Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ29.5×116mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 40×15ml Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ17×121mm</p>	
 <p><b>Rotor: Swing Out Rotor</b> Capacity: 80×10ml blood tube Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ15×100mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 112×2~7ml blood tube Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ13×75~100mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 100×1.5ml Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ11×42mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 148×5ml RIA tube Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ13×75~100mm</p>	 <p><b>Rotor: Swing Out Rotor</b> Capacity: 96×2~7ml blood tube Max Speed: 4200r/min Max RCF: 3550×g Tube Size: Φ13×75~100mm</p>	 <p><b>Rotor: Microplate Rotor</b> Capacity: 4×2×96hole×0.2ml Max Speed: 4200r/min Max RCF: 3550×g max: 128×87×60mm</p>

# TGL-17 Benchtop High Speed Multi-functional Refrigerated Centrifuge



## FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Intelligent status display,real-time and real values.
- ◆ PID dynamic temperature control, fast and accurate.
- ◆ Imported compressor unit, CFC-free,heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ Temperature range from  $-20^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  in  $1^{\circ}\text{C}$  steps
- ◆ RFID automatic rotor identification. Without rotor spin,centrifuge can instantly identify rotor specifications, max speed, max RCF, production date, usage and other information, which is convenient for users to manage rotors.
- ◆ Imbalance detection.Three axis gyroscope detects imbalance in the whole spin process.
- ◆ Variable frequency motor,maintenance-free;
- ◆ Stores up to 1000 programs, with password protection.
- ◆ Stores up to 1000 run histories, which is convenient for users to trace records.
- ◆ Can set password to the centrifuge to prevent misoperation.
- ◆ Curve display:Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure, overheating. Sound and text prompt at the same time and display solutions.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
TGL-17	18500rpm	4x250ml	$\pm 10$ r/min	1s-99h59min59s	AC 220V 50HZ 15A	$\leq 56\text{dB}$ (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	29990 $\times$ g	$\pm 1^{\circ}\text{C}$	$-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$	640 $\times$ 560 $\times$ 390	1.2KW	80Kg

## ROTOR PARAMETER

<p>No.1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12<math>\times</math>1.5/2.2ml Max Speed: 18500r/min Max RCF: 23915<math>\times</math>g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x 5ml Max Speed: 15000r/min Max RCF: 18270<math>\times</math>g Tube Size: <math>\Phi 14 \times 54\text{mm}</math></p>	<p>No.3-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24<math>\times</math>1.5/2.2ml Max Speed: 15000r/min Max RCF: 21790<math>\times</math>g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.3-2</p>  <p>Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24<math>\times</math>1.5/2.2ml Max Speed: 17600r/min Max RCF: 29990<math>\times</math>g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.4-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12<math>\times</math>10ml Max Speed: 14000r/min Max RCF: 18120<math>\times</math>g Tube Size: <math>\Phi 16 \times 86\text{mm}</math></p>	<p>No.4-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 36<math>\times</math>1.5/2.2ml Max Speed: 13000r/min Max RCF: 16340<math>\times</math>g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>
<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8<math>\times</math>50ml Conical Bottom Max Speed: 12000r/min Max RCF: 15970<math>\times</math>g Tube Size: <math>\Phi 29 \times 116\text{mm}</math></p>	<p>No.5-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6<math>\times</math>50ml Round Bottom Max Speed: 12000r/min Max RCF: 15970<math>\times</math>g Tube Size: <math>\Phi 29 \times 111\text{mm}</math></p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 48<math>\times</math>1.5/2.2ml Max Speed: 12000r/min Max RCF: 15780<math>\times</math>g Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.6-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4<math>\times</math>100ml Max Speed: 11000r/min Max RCF: 13350<math>\times</math>g Tube Size: <math>\Phi 37 \times 123\text{mm}</math></p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8<math>\times</math>50ml Conical Bottom Max Speed: 11000r/min Max RCF: 14030<math>\times</math>g Tube Size: <math>\Phi 29 \times 116\text{mm}</math></p>	
<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8<math>\times</math>50ml Round Bottom Max Speed: 12000r/min Max RCF: 13350<math>\times</math>g Tube Size: <math>\Phi 29 \times 116\text{mm}</math></p>	<p>No.6-3</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12<math>\times</math>15ml Max Speed: 12000r/min Max RCF: 15890<math>\times</math>g Tube Size: <math>\Phi 17 \times 121\text{mm}</math></p>	<p>No.7</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6<math>\times</math>10ml Max Speed: 16000r/min Max RCF: 18980<math>\times</math>g Tube Size: <math>\Phi 16 \times 86\text{mm}</math></p>	<p>No.8-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8<math>\times</math>15ml Max Speed: 13000r/min Max RCF: 14930<math>\times</math>g Tube Size: <math>\Phi 17 \times 121\text{mm}</math></p>	<p>No.8-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6<math>\times</math>30ml Max Speed: 13000r/min Max RCF: 15910<math>\times</math>g Tube Size: <math>\Phi 25.5 \times 100\text{mm}</math></p>	
<p>No.9</p>  <p>Rotor: Microplate Rotor Capacity: 2<math>\times</math>3<math>\times</math>96hole<math>\times</math>0.2ml Max Speed: 4000r/min Max RCF: 1970<math>\times</math>g max: 128<math>\times</math>87<math>\times</math>60mm</p>	<p>No.10</p>  <p>Rotor: Swing Out Rotor Capacity: 4<math>\times</math>250ml Max Speed: 4500r/min Max RCF: 3720<math>\times</math>g Tube Size: <math>\Phi 63 \times 121\text{mm}</math></p>	<p>Adaptor</p>  <p>Capacity: 8<math>\times</math>50ml Max Speed: 4500r/min Max RCF: 3720<math>\times</math>g Tube Size: <math>\Phi 29.5 \times 116\text{mm}</math></p>	<p>Adaptor</p>  <p>Capacity: 20<math>\times</math>15ml Max Speed: 4500r/min Max RCF: 3720<math>\times</math>g Tube Size: <math>\Phi 17 \times 121\text{mm}</math></p>	<p>Adaptor</p>  <p>Capacity: 36<math>\times</math>10ml Max Speed: 4500r/min Max RCF: 3720<math>\times</math>g Tube Size: <math>\Phi 16.5 \times 86 \sim 110\text{mm}</math></p>	<p>Adaptor</p>  <p>Capacity: 40<math>\times</math>7ml blood tube Max Speed: 4500r/min Max RCF: 3720<math>\times</math>g Tube Size: <math>\Phi 13 \times 100\text{mm}</math></p>



# TGL-22S Benchtop High Speed Refrigerated Centrifuge



## FEATURES

- ◆ Imported compressor unit, CFC-free, heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ RFID automatic rotor identification. Without rotor spin, centrifuge can instantly identify rotor specifications, max speed, max RCF, production date, usage and other information, which is convenient for users to manage rotors.
- ◆ Imbalance detection. Three axis gyroscope detects imbalance in the whole spin process.
- ◆ Variable frequency motor, maintenance-free; LCD touch screen for viewing and setting parameters.
- ◆ All steel housing, 316 stainless steel chamber.
- ◆ Stores up to 1000 programs and 1000 usage records.
- ◆ Password lock function: Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Curve display: Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
TGL-22S	22000rpm	6×100ml	$\pm 10$ r/min	1s-99h59min59s	AC 220V 50HZ 15A	$\leq 57$ dB (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	33820×g	$\pm 1^{\circ}\text{C}$	-20°C ~ 40°C	420×520×360	1.2KW	62Kg

## ROTOR PARAMETER

No.1



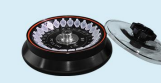
Rotor: Fixed Angle Rotor  
Capacity: 12x1.5/2.2ml  
Max Speed: 22000r/min  
Max RCF: 33820×g  
Tube Size:  $\Phi 11 \times 42$ mm

No.2



Rotor: Fixed Angle Rotor  
Capacity: 12x5ml  
Max Speed: 17000r/min  
Max RCF: 23460×g  
Tube Size:  $\Phi 14 \times 54$ mm

No.3-1



Rotor: Fixed Angle Rotor  
Capacity: 24x1.5/2.2ml  
Max Speed: 16000r/min  
Max RCF: 24790×g  
Tube Size:  $\Phi 11 \times 42$ mm

No.3-2



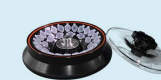
Rotor: Fixed Angle Rotor  
(aerosol tight)  
Capacity: 24x1.5/2.2ml  
Max Speed: 18000r/min  
Max RCF: 31370×g  
Tube Size:  $\Phi 11 \times 42$ mm

No.4-1



Rotor: Fixed Angle Rotor  
Capacity: 12x10ml  
Max Speed: 15000r/min  
Max RCF: 20800×g  
Tube Size:  $\Phi 16 \times 86$ mm

No.4-2



Rotor: Fixed Angle Rotor  
Capacity: 36x1.5/2.2ml  
Max Speed: 15000r/min  
Max RCF: 21760×g  
Tube Size:  $\Phi 11 \times 42$ mm

No.5-1



Rotor: Fixed Angle Rotor  
Capacity: 6x50ml *Conical Bottom*  
Max Speed: 13000r/min  
Max RCF: 18420×g  
Tube Size:  $\Phi 29 \times 116$ mm

No.5-1



Rotor: Fixed Angle Rotor  
Capacity: 6x50ml *Round Bottom*  
Max Speed: 13000r/min  
Max RCF: 18420×g  
Tube Size:  $\Phi 29 \times 111$ mm

No.5-2



Rotor: Fixed Angle Rotor  
Capacity: 48x1.5/2.2ml  
Max Speed: 13000r/min  
Max RCF: 18520×g  
Tube Size:  $\Phi 11 \times 42$ mm

No.6-1



Rotor: Fixed Angle Rotor  
Capacity: 4x100ml  
Max Speed: 11000r/min  
Max RCF: 13350×g  
Tube Size:  $\Phi 37 \times 123$ mm

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8x50ml *Round Bottom*  
Max Speed: 11000r/min  
Max RCF: 13350×g  
Tube Size:  $\Phi 29 \times 111$ mm

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8x50ml *Conical Bottom*  
Max Speed: 11000r/min  
Max RCF: 14030×g  
Tube Size:  $\Phi 29 \times 116$ mm

No.6-3



Rotor: Fixed Angle Rotor  
Capacity: 12x15ml  
Max Speed: 12500r/min  
Max RCF: 17240×g  
Tube Size:  $\Phi 17 \times 121$ mm

No.7



Rotor: Fixed Angle Rotor  
Capacity: 6x10ml  
Max Speed: 16000r/min  
Max RCF: 18980×g  
Tube Size:  $\Phi 16 \times 86$ mm

No.8-1



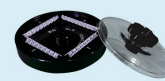
Rotor: Fixed Angle Rotor  
Capacity: 8x15ml  
Max Speed: 14000r/min  
Max RCF: 17310×g  
Tube Size:  $\Phi 17 \times 121$ mm

No.8-2



Rotor: Fixed Angle Rotor  
Capacity: 6x30ml  
Max Speed: 14000r/min  
Max RCF: 18450×g  
Tube Size:  $\Phi 25.5 \times 100$ mm

No.9



Rotor: Fixed Angle Rotor  
Capacity: 4x0.2ml PCR Strip  
Max Speed: 13000r/min  
Max RCF: 14640×g

No.10



Rotor: Fixed Angle Rotor  
Capacity: 6x100ml  
Max Speed: 10000r/min  
Max RCF: 12060×g  
Tube Size:  $\Phi 37 \times 123$ mm

No.11



Rotor: Fixed Angle Rotor  
Capacity: 24x2ml  
(Frozen Storage Tube)  
Max Speed: 15000r/min  
Max RCF: 23400×g  
Tube Size:  $\Phi 11.5 \times 45$ mm

# TGL-20 Benchtop High Speed Refrigerated Centrifuge



## FEATURES

- ◆ Imported compressor unit, CFC-free, heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ RFID automatic rotor identification. Without rotor spin, centrifuge can instantly identify rotor specifications, max speed, max RCF, production date, usage and other information, which is convenient for users to manage rotors.
- ◆ Imbalance detection. Three axis gyroscope detects imbalance in the whole spin process.
- ◆ Variable frequency motor, maintenance-free; LCD touch screen for viewing and setting parameters.
- ◆ All steel housing, 316 stainless steel chamber.
- ◆ Stores up to 1000 programs and 1000 usage records.
- ◆ Password lock function: Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Curve display: Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
TGL-20	20000rpm	6x100ml	$\pm 10$ r/min	1s-99h59min59s	AC 220V 50HZ 15A	$\leq 57$ dB (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	31370xg	$\pm 1^{\circ}\text{C}$	-20 $^{\circ}\text{C}$ ~ 40 $^{\circ}\text{C}$	420x520x360	1.2KW	62Kg

## ROTOR PARAMETER

<p>No.1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x1.5/2.2ml Max Speed: 20000r/min Max RCF: 27950xg Tube Size: <math>\Phi 11 \times 42</math>mm</p>	<p>No.2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x5ml Max Speed: 17000r/min Max RCF: 23460xg Tube Size: <math>\Phi 14 \times 54</math>mm</p>	<p>No.3-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x1.5/2.2ml Max Speed: 16000r/min Max RCF: 24790xg Tube Size: <math>\Phi 11 \times 42</math>mm</p>	<p>No.3-2</p>  <p>Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24x1.5/2.2ml Max Speed: 18000r/min Max RCF: 31370xg Tube Size: <math>\Phi 11 \times 42</math>mm</p>
<p>No.4-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x10ml Max Speed: 15000r/min Max RCF: 20800xg Tube Size: <math>\Phi 16 \times 86</math>mm</p>	<p>No.4-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 36x1.5/2.2ml Max Speed: 15000r/min Max RCF: 20800xg Tube Size: <math>\Phi 11 \times 42</math>mm</p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml Conical Bottom Max Speed: 12500r/min Max RCF: 17030xg Tube Size: <math>\Phi 29 \times 116</math>mm</p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml Round Bottom Max Speed: 12500r/min Max RCF: 17030xg Tube Size: <math>\Phi 29 \times 111</math>mm</p>
<p>No.5-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 48x1.5/2.2ml Max Speed: 12500r/min Max RCF: 17120xg Tube Size: <math>\Phi 11 \times 42</math>mm</p>	<p>No.6-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x100ml Max Speed: 11000r/min Max RCF: 13350xg Tube Size: <math>\Phi 37 \times 123</math>mm</p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml Round Bottom Max Speed: 11000r/min Max RCF: 13350xg Tube Size: <math>\Phi 29 \times 111</math>mm</p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml Conical Bottom Max Speed: 11000r/min Max RCF: 14030xg Tube Size: <math>\Phi 29 \times 116</math>mm</p>
<p>No.6-3</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x15ml Max Speed: 11000r/min Max RCF: 13350xg Tube Size: <math>\Phi 17 \times 121</math>mm</p>	<p>No.7</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x10ml Max Speed: 16000r/min Max RCF: 18980xg Tube Size: <math>\Phi 16 \times 86</math>mm</p>	<p>No.8-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x15ml Max Speed: 14000r/min Max RCF: 17310xg Tube Size: <math>\Phi 17 \times 121</math>mm</p>	<p>No.8-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x30ml Max Speed: 14000r/min Max RCF: 18450xg Tube Size: <math>\Phi 25.5 \times 100</math>mm</p>
<p>No.9</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x0.2ml PCR Strip Max Speed: 13000r/min Max RCF: 14640xg</p>	<p>No.10</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x100ml Max Speed: 9000r/min Max RCF: 9770xg Tube Size: <math>\Phi 37 \times 123</math>mm</p>	<p>No.11</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x2ml (Frozen Storage Tube) Max Speed: 15000r/min Max RCF: 23400xg Tube Size: <math>\Phi 11.5 \times 45</math>mm</p>	

# TGL-1650 Benchtop High Speed Refrigerated Centrifuge



## FEATURES

- ◆ Imported compressor unit, CFC-free, heating and cooling double-loop temperature control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ RFID automatic rotor identification. Without rotor spin, centrifuge can instantly identify rotor specifications, max speed, max RCF, production date, usage and other information, which is convenient for users to manage rotors.
- ◆ Imbalance detection. Three axis gyroscope detects imbalance in the whole spin process.
- ◆ Variable frequency motor, maintenance-free; LCD touch screen for viewing and setting parameters.
- ◆ All steel housing, 316 stainless steel chamber.
- ◆ Stores up to 1000 programs and 1000 usage records.
- ◆ Password lock function: Can set password to lock the centrifuge or program to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Curve display: Speed curve, RCF curve and Temperature curve are displayed together, clear to see their changing and relations.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
TGL-1650	16500rpm	6x100ml	$\pm 10$ r/min	1s-99h59min59s	AC 220V 50HZ 15A	$\leq 57\text{dB}$ (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	24790xg	$\pm 1^{\circ}\text{C}$	$-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$	420x520x360	1.2KW	62Kg

## ROTOR PARAMETER

<p>No.1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x1.5/2.2ml Max Speed: 16500r/min Max RCF: 19000xg Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x5ml Max Speed: 16000r/min Max RCF: 20780xg Tube Size: <math>\Phi 14 \times 54\text{mm}</math></p>	<p>No.3-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x1.5/2.2ml Max Speed: 16000r/min Max RCF: 24790xg Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.3-2</p>  <p>Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24x1.5/2.2ml Max Speed: 16000r/min Max RCF: 24790xg Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>
<p>No.4-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x10ml Max Speed: 14000r/min Max RCF: 18120xg Tube Size: <math>\Phi 16 \times 86\text{mm}</math></p>	<p>No.4-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 36x1.5/2.2ml Max Speed: 14000r/min Max RCF: 18960xg Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml <small>Conical Bottom</small> Max Speed: 12000r/min Max RCF: 15700xg Tube Size: <math>\Phi 29 \times 116\text{mm}</math></p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml <small>Round Bottom</small> Max Speed: 12000r/min Max RCF: 15700xg Tube Size: <math>\Phi 29 \times 111\text{mm}</math></p>
<p>No.5-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 48x1.5/2.2ml Max Speed: 12000r/min Max RCF: 15780xg Tube Size: <math>\Phi 11 \times 42\text{mm}</math></p>	<p>No.6-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x100ml Max Speed: 11000r/min Max RCF: 13350xg Tube Size: <math>\Phi 37 \times 123\text{mm}</math></p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml <small>Round Bottom</small> Max Speed: 11000r/min Max RCF: 13350xg Tube Size: <math>\Phi 29 \times 111\text{mm}</math></p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml <small>Conical Bottom</small> Max Speed: 11000r/min Max RCF: 14030xg Tube Size: <math>\Phi 29 \times 116\text{mm}</math></p>
<p>No.6-3</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x15ml Max Speed: 11000r/min Max RCF: 13360xg Tube Size: <math>\Phi 17 \times 121\text{mm}</math></p>	<p>No.7</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x10ml Max Speed: 16000r/min Max RCF: 18980xg Tube Size: <math>\Phi 16 \times 86\text{mm}</math></p>	<p>No.8-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x15ml Max Speed: 14000r/min Max RCF: 17310xg Tube Size: <math>\Phi 17 \times 121\text{mm}</math></p>	<p>No.8-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x30ml Max Speed: 14000r/min Max RCF: 18450xg Tube Size: <math>\Phi 25.5 \times 100\text{mm}</math></p>
<p>No.9</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x0.2ml PCR Strip Max Speed: 13000r/min Max RCF: 14640xg</p>	<p>No.10</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x100ml Max Speed: 9000r/min Max RCF: 9770xg Tube Size: <math>\Phi 37 \times 123\text{mm}</math></p>	<p>No.11</p>  <p>Rotor: Microplate Rotor Capacity: 2x2x48holex0.2ml Max Speed: 4000r/min Max RCF: 1500xg max: <math>\Phi 128 \times 48 \times 60\text{mm}</math></p>	

# TGL-18 Benchtop High Speed Refrigerated Centrifuge



## FEATURES

- ◆ Variable frequency motor drive, microprocessor control, LCD&LED dual-screen display.
- ◆ Electronic lid lock, imbalance protection.
- ◆ Automatic rotor recognition to prevent over-speed.
- ◆ Easy to replace the rotor with special elastic fixed method.
- ◆ Can store 12 programs, 40 acceleration and deceleration stages.
- ◆ Automatic fault diagnosis.
- ◆ Imported compressor, CFC-free; refrigeration/heating double-loop control, ±1°C high temperature accuracy.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Imported famous brand frequency conversion controller controls speed accurately and has long life.
- ◆ User can modify parameters when rotor is running.
- ◆ All steel housing and stainless steel chamber to ensure safety.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance dynamically in the whole spin process.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
TGL-18	18000rpm	6x100ml	±10 r/min	1min-99h59min/Inching	AC 220V 50HZ 15A	≤60dB (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	22500×g	±1 °C	-20°C ~ 40°C	420×625×360	1.2KW	55Kg

## ROTOR PARAMETER

<p>No.1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x1.5/2.2ml Max Speed: 18000r/min Max RCF: 22500×g Tube Size: Φ11x42mm</p>	<p>No.2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x5ml Max Speed: 15000r/min Max RCF: 18270×g Tube Size: Φ11x54mm</p>	<p>No.3-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x1.5/2.2ml Max Speed: 15000r/min Max RCF: 21630×g Tube Size: Φ11x42mm</p>	<p>No.3-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x1.5/2.2ml (aerosol tight) Max Speed: 15000r/min Max RCF: 21630×g Tube Size: Φ11x42mm</p>
<p>No.4-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x10ml Max Speed: 13000r/min Max RCF: 15620×g Tube Size: Φ16x86mm</p>	<p>No.4-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 36x1.5/2.2ml Max Speed: 13000r/min Max RCF: 15620×g Tube Size: Φ11x42mm</p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml Conical Bottom Max Speed: 12000r/min Max RCF: 15970×g Tube Size: Φ29x116mm</p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml Round Bottom Max Speed: 12000r/min Max RCF: 15970×g Tube Size: Φ29x111mm</p>
<p>No.5-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 48x1.5/2.2ml Max Speed: 12000r/min Max RCF: 15970×g Tube Size: Φ11x42mm</p>	<p>No.6-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x100ml Max Speed: 11000r/min Max RCF: 12870×g Tube Size: Φ37x123mm</p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml Round Bottom Max Speed: 11000r/min Max RCF: 12870×g Tube Size: Φ29x111mm</p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml Conical Bottom Max Speed: 11000r/min Max RCF: 12870×g Tube Size: Φ29x116mm</p>
<p>No.6-3</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x15ml Max Speed: 11000r/min Max RCF: 12870×g Tube Size: Φ17x121mm</p>	<p>No.7</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x10ml Max Speed: 16000r/min Max RCF: 19070×g Tube Size: Φ16x86mm</p>	<p>No.8-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x15ml Max Speed: 13000r/min Max RCF: 15620×g Tube Size: Φ17x121mm</p>	<p>No.8-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x30ml Max Speed: 13000r/min Max RCF: 15620×g Tube Size: Φ25.5x100mm</p>
<p>No.9</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x0.2ml PCR Strip Max Speed: 13000r/min Max RCF: 14640×g</p>	<p>No.10</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x100ml Max Speed: 9000r/min Max RCF: 9770×g Tube Size: Φ37x123mm</p>	<p>No.11</p>  <p>Rotor: Microplate Rotor Capacity: 2x2x48holex0.2ml Max Speed: 4000r/min Max RCF: 1500×g max: 128x48x60mm</p>	

# TGL-16 Benchtop High Speed Refrigerated Centrifuge



## FEATURES

- ◆ Variable frequency motor drive, microprocessor control, LCD&LED dual-screen display.
- ◆ Electronic lid lock, imbalance protection.
- ◆ Automatic rotor recognition to prevent over-speed.
- ◆ Easy to replace the rotor with special elastic fixed method.
- ◆ Can store 12 programs, 40 acceleration and deceleration stages.
- ◆ Automatic fault diagnosis.
- ◆ Imported compressor, CFC-free; refrigeration/heating double-loop control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Imported famous brand frequency conversion controller controls speed accurately and has long life.
- ◆ User can modify parameters when rotor is running.
- ◆ All steel housing and stainless steel chamber to ensure safety.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance dynamically in the whole spin process.

## TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
TGL-16	16500rpm	6x100ml	$\pm 10$ r/min	1min-99h59min/Inching	AC 220V 50HZ 15A	$\leq 60\text{dB}$ (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	21630xg	$\pm 1^{\circ}\text{C}$	$-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$	420x625x360	1.2KW	55Kg

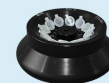
## ROTOR PARAMETER

No.1



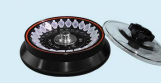
Rotor: Fixed Angle Rotor  
Capacity: 12x1.5/2.2ml  
Max Speed: 16500r/min  
Max RCF: 19000xg  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.2



Rotor: Fixed Angle Rotor  
Capacity: 12x5ml  
Max Speed: 15000r/min  
Max RCF: 18270xg  
Tube Size:  $\Phi 14 \times 54\text{mm}$

No.3-1



Rotor: Fixed Angle Rotor  
Capacity: 24x1.5/2.2ml  
Max Speed: 15000r/min  
Max RCF: 21630xg  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.3-2



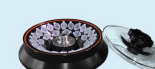
Rotor: Fixed Angle Rotor  
Capacity: 24x1.5/2.2ml  
(aerosol tight)  
Max Speed: 15000r/min  
Max RCF: 21630xg  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.4-1



Rotor: Fixed Angle Rotor  
Capacity: 12x10ml  
Max Speed: 13000r/min  
Max RCF: 15620xg  
Tube Size:  $\Phi 16 \times 86\text{mm}$

No.4-2



Rotor: Fixed Angle Rotor  
Capacity: 36x1.5/2.2ml  
Max Speed: 13000r/min  
Max RCF: 15620xg  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.5-1



Rotor: Fixed Angle Rotor  
Capacity: 6x50ml  
Conical Bottom  
Max Speed: 12000r/min  
Max RCF: 15970xg  
Tube Size:  $\Phi 29 \times 116\text{mm}$

No.5-1



Rotor: Fixed Angle Rotor  
Capacity: 6x50ml  
Round Bottom  
Max Speed: 12000r/min  
Max RCF: 15970xg  
Tube Size:  $\Phi 29 \times 116\text{mm}$

No.5-2



Rotor: Fixed Angle Rotor  
Capacity: 48x1.5/2.2ml  
Max Speed: 12000r/min  
Max RCF: 15970xg  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.6-1



Rotor: Fixed Angle Rotor  
Capacity: 4x100ml  
Max Speed: 11000r/min  
Max RCF: 12870xg  
Tube Size:  $\Phi 37 \times 123\text{mm}$

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8x50ml  
Round Bottom  
Max Speed: 11000r/min  
Max RCF: 12870xg  
Tube Size:  $\Phi 29 \times 116\text{mm}$

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8x50ml  
Conical Bottom  
Max Speed: 11000r/min  
Max RCF: 12870xg  
Tube Size:  $\Phi 29 \times 116\text{mm}$

No.6-3



Rotor: Fixed Angle Rotor  
Capacity: 12x15ml  
Max Speed: 11000r/min  
Max RCF: 12870xg  
Tube Size:  $\Phi 17 \times 121\text{mm}$

No.7



Rotor: Fixed Angle Rotor  
Capacity: 6x10ml  
Max Speed: 16000r/min  
Max RCF: 19070xg  
Tube Size:  $\Phi 16 \times 86\text{mm}$

No.8-1



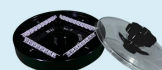
Rotor: Fixed Angle Rotor  
Capacity: 8x15ml  
Max Speed: 13000r/min  
Max RCF: 15620xg  
Tube Size:  $\Phi 17 \times 121\text{mm}$

No.8-2



Rotor: Fixed Angle Rotor  
Capacity: 6x30ml  
Max Speed: 13000r/min  
Max RCF: 15620xg  
Tube Size:  $\Phi 25.5 \times 100\text{mm}$

No.9



Rotor: Fixed Angle Rotor  
Capacity: 4x0.2ml PCR Strip  
Max Speed: 13000r/min  
Max RCF: 14460xg

No.10



Rotor: Fixed Angle Rotor  
Capacity: 6x100ml  
Max Speed: 9000r/min  
Max RCF: 9770xg  
Tube Size:  $\Phi 37 \times 123\text{mm}$

No.11



Rotor: Microplate Rotor  
Capacity: 2x2x48holex0.2ml  
Max Speed: 4000r/min  
Max RCF: 1500xg  
max: 128x48x60mm

## TGL-16S Benchtop High Speed Small Capacity Refrigerated Centrifuge



### FEATURES

- ◆ Variable frequency motor drive, microprocessor control.
- ◆ LCD&LED dual-screen display.
- ◆ Electronic lid lock, imbalance protection.
- ◆ Automatic rotor recognition to prevent over-speed.
- ◆ Easy to replace the rotor with special elastic fixed method.
- ◆ Can store 12 programs, 40 acceleration and deceleration stages.
- ◆ Automatic fault diagnosis.
- ◆ Good compressor, CFC-free; refrigeration/heating double-loop control,  $\pm 1^{\circ}\text{C}$  high temperature accuracy.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Imported famous brand frequency conversion controller controls speed accurately and has long life.
- ◆ User can modify parameters when rotor is running.
- ◆ All steel housing and stainless steel chamber to ensure safety.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance dynamically in the whole spin process.

### TECHNICAL PARAMETER

Model	TGL-16S
Max Speed	16500rpm
Max RCF	21630×g
Max Capacity	12×10ml
Speed Accuracy	$\pm 10$ r/min
Noise	$\leq 60\text{dB}$ (A)
Time Range	1m-99h99m/inching
Temp. Range	$-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$
Temp. Accuracy	$\pm 1^{\circ}\text{C}$
acceleration /deceleration	40 stages
Dimension (mm)	420×625×360
Power Supply (AC)	220V 50HZ 15A
Weight	50Kg
Power	1KW

### ROTOR PARAMETER

No.1



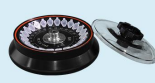
Rotor: Fixed Angle Rotor  
Capacity: 12x1.5/2.2ml  
Max Speed: 16500r/min  
Max RCF: 19000×g  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.2



Rotor: Fixed Angle Rotor  
Capacity: 12x5ml  
Max Speed: 15000r/min  
Max RCF: 18270×g  
Tube Size:  $\Phi 14 \times 54\text{mm}$

No.3



Rotor: Fixed Angle Rotor  
Capacity: 24x1.5/2.2ml  
Max Speed: 15000r/min  
Max RCF: 21630×g  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.4



Rotor: Fixed Angle Rotor  
Capacity: 12x10ml  
Max Speed: 12000r/min  
Max RCF: 13310×g  
Tube Size:  $\Phi 16 \times 86\text{mm}$

No.5



Rotor: Fixed Angle Rotor  
Capacity: 48x15ml  
Max Speed: 12000r/min  
Max RCF: 15970×g  
Tube Size:  $\Phi 11 \times 42\text{mm}$

## TGL-1850/2150 Benchtop High Speed Small Capacity Refrigerated Centrifuge



### FEATURES

- ◆ Variable frequency motor drive.
- ◆ Microprocessor control, LCD touch screen.
- ◆ Intelligent detection, imbalance protection.
- ◆ Servo door lock.
- ◆ Can store frequently-used programs, adjustable acceleration and deceleration rate.
- ◆ Variable frequency compressor controls temperature accurately, CFC-free refrigerant.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Can modify parameters when rotor is running.

### TECHNICAL PARAMETER

Model	TGL-2150	TGL-1850
Max Speed	15000rpm	14000rpm
Max RCF	21630×g	18800×g
Max Capacity	12×5ml	
Speed Accuracy	$\pm 10$ r/min	
Rotor	24×1.5/2.2ml Fixed Angle Rotor (With adaptors for 0.5ml/0.2ml)	
Time Range	1s-999min59s	
Temp. Range	$-10^{\circ}\text{C} \sim 35^{\circ}\text{C}$	
Temp. Accuracy	$\pm 1^{\circ}\text{C}$	
Noise	$\leq 58\text{dB}$ (A)	
Dimension (mm)	420×285×285	
Power Supply	AC 220V 50HZ 15A	
Weight	19kg	
Power	800W	

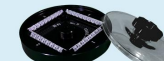
### ROTOR PARAMETER

No.1



Rotor: Fixed Angle Rotor  
Capacity: 24x1.5/2.2ml  
Max Speed: 14000r/min (TGL-1850)  
15000r/min (TGL-2150)  
Max RCF: 18800×g (TGL-1850)  
21630×g (TGL-2150)  
Tube Size:  $\Phi 11 \times 42\text{mm}$

No.2



Rotor: Fixed Angle Rotor  
Capacity: 4x0.2ml PCR Strip  
Max Speed: 14000r/min (TGL-1850)  
15000r/min (TGL-2150)  
Max RCF: 18800×g (TGL-1850)  
21630×g (TGL-2150)

No.3



Rotor: Fixed Angle Rotor  
Capacity: 12x5ml  
Max Speed: 14000r/min (TGL-1850)  
15000r/min (TGL-2150)  
Max RCF: 15800×g (TGL-1850)  
18270×g (TGL-2150)  
Tube Size:  $\Phi 14 \times 54\text{mm}$

# TG-20 Benchtop High Speed Centrifuge



## FEATURES

- ◆ Variable frequency motor, maintenance free; LCD touch screen for viewing and setting parameters.
- ◆ Electronic lid lock, controlled by independent motor.
- ◆ Automatic rotor recognition to prevent over-speed.
- ◆ Elastic rotor lock method, it's convenient and fast to change rotor.
- ◆ 40 acceleration and deceleration stages; User can set and store up to 1000 programs.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance in the whole spin process.
- ◆ Automatic fault diagnosis and record.
- ◆ 5-stage centrifugation is available.
- ◆ Stores up to 1000 run histories, which can be exported via USB.
- ◆ User can set password to lock the machine to prevent misoperation.
- ◆ Steel housing and 304 stainless steel chamber
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

## TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range
TG-20	20000rpm	27800×g	6x100ml(8000rpm)	±10 r/min	1s-99h59m59s
	Noise	Power Supply(AC)	Dimension (mm)	Weight	Power
	≤60dB(A)	220V 50Hz 10A	445x360x315	29Kg	500W

## ROTOR PARAMETER

No.1



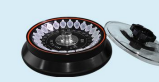
Rotor: Fixed Angle Rotor  
Capacity: 12x1.5/2.2ml  
Max Speed: 20000r/min  
Max RCF: 27800×g  
Tube Size: Φ11x42mm

No.2



Rotor: Fixed Angle Rotor  
Capacity: 12x5ml  
Max Speed: 15000r/min  
Max RCF: 18240×g  
Tube Size: Φ14x54mm

No.3-1



Rotor: Fixed Angle Rotor  
Capacity: 24x1.5/2.2ml  
Max Speed: 16000r/min  
Max RCF: 24760×g  
Tube Size: Φ11x42mm

No.3-2



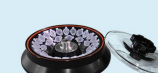
Rotor: Fixed Angle Rotor  
(aerosol tight)  
Capacity: 24x1.5/2.2ml  
Max Speed: 16000r/min  
Max RCF: 24760×g  
Tube Size: Φ11x42mm

No.4-1



Rotor: Fixed Angle Rotor  
Capacity: 12x10ml  
Max Speed: 13000r/min  
Max RCF: 15630×g  
Tube Size: Φ16x86mm

No.4-2



Rotor: Fixed Angle Rotor  
Capacity: 36x1.5/2.2ml  
Max Speed: 13000r/min  
Max RCF: 15630×g  
Tube Size: Φ11x42mm

No.5-1



Rotor: Fixed Angle Rotor  
Capacity: 6x50ml *Conical Bottom*  
Max Speed: 12000r/min  
Max RCF: 15700×g  
Tube Size: Φ29x116mm

No.5-1



Rotor: Fixed Angle Rotor  
Capacity: 6x50ml *Round Bottom*  
Max Speed: 12000r/min  
Max RCF: 15700×g  
Tube Size: Φ29x111mm

No.5-2



Rotor: Fixed Angle Rotor  
Capacity: 48x1.5/2.2ml  
Max Speed: 12000r/min  
Max RCF: 15700×g  
Tube Size: Φ11x42mm

No.6-1



Rotor: Fixed Angle Rotor  
Capacity: 4x100ml  
Max Speed: 10000r/min  
Max RCF: 11020×g  
Tube Size: Φ37x123mm

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8x50ml *Round Bottom*  
Max Speed: 10000r/min  
Max RCF: 11020×g  
Tube Size: Φ29x111mm

No.6-2



Rotor: Fixed Angle Rotor  
Capacity: 8x50ml *Conical Bottom*  
Max Speed: 10000r/min  
Max RCF: 11020×g  
Tube Size: Φ29x116mm

No.6-3



Rotor: Fixed Angle Rotor  
Capacity: 12x15ml  
Max Speed: 10000r/min  
Max RCF: 11020×g  
Tube Size: Φ17x121mm

No.6-4



Rotor: Fixed Angle Rotor  
Capacity: 24x10ml  
Max Speed: 10000r/min  
Max RCF: 11020×g  
Tube Size: Φ16x86mm

No.7



Rotor: Fixed Angle Rotor  
Capacity: 6x10ml  
Max Speed: 16000r/min  
Max RCF: 18950×g  
Tube Size: Φ16x86mm

No.8-1



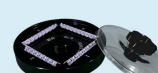
Rotor: Fixed Angle Rotor  
Capacity: 8x15ml  
Max Speed: 13000r/min  
Max RCF: 14930×g  
Tube Size: Φ17x121mm

No.8-2



Rotor: Fixed Angle Rotor  
Capacity: 6x30ml  
Max Speed: 13000r/min  
Max RCF: 14930×g  
Tube Size: Φ25.5x100mm

No.9



Rotor: Fixed Angle Rotor  
Capacity: 4x0.2ml PCR Strip  
Max Speed: 13000r/min  
Max RCF: 14640×g

No.10



Rotor: Fixed Angle Rotor  
Capacity: 6x100ml  
Max Speed: 8000r/min  
Max RCF: 7720×g  
Tube Size: Φ37x123mm

No.11



Rotor: Microplate Rotor  
Capacity: 2x2x48holex0.2ml  
Max Speed: 4000r/min  
Max RCF: 1500×g  
max: Φ128x48x60mm

# TG-18 Benchtop High Speed Centrifuge



## FEATURES

- ◆ Variable frequency motor, maintenance free; LCD touch screen for viewing and setting parameters.
- ◆ Electronic lid lock, controlled by independent motor.
- ◆ Automatic rotor recognition to prevent over-speed.
- ◆ Elastic rotor lock method, it's convenient and fast to change rotor.
- ◆ 40 acceleration and deceleration stages; User can set and store up to 1000 programs.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance in the whole spin process.
- ◆ Automatic fault diagnosis and record.
- ◆ 5-stage centrifugation is available.
- ◆ Stores up to 1000 run histories, which can be exported via USB.
- ◆ User can set password to lock the machine to prevent misoperation.
- ◆ Steel housing and 304 stainless steel chamber
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

## TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range
TG-18	18000rpm	24760×g	6x100ml(8000rpm)	±10 r/min	1s-99h59m59s
	Noise	Power Supply(AC)	Dimension (mm)	Weight	Power
	≤60dB(A)	220V 50Hz 10A	445x360x315	29Kg	500W

## ROTOR PARAMETER

<p>No.1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x1.5/2.2ml Max Speed: 18000r/min Max RCF: 22500×g Tube Size: Φ11x42mm</p>	<p>No.2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x5ml Max Speed: 15000r/min Max RCF: 18240×g Tube Size: Φ14x54mm</p>	<p>No.3-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x1.5/2.2ml Max Speed: 16000r/min Max RCF: 24760×g Tube Size: Φ11x42mm</p>	<p>No.3-2</p>  <p>Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24x1.5/2.2ml Max Speed: 16000r/min Max RCF: 24760×g Tube Size: Φ11x42mm</p>
<p>No.4-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x10ml Max Speed: 13000r/min Max RCF: 15630×g Tube Size: Φ16x86mm</p>	<p>No.4-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 36x1.5/2.2ml Max Speed: 13000r/min Max RCF: 15630×g Tube Size: Φ11x42mm</p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml Conical Bottom Max Speed: 12000r/min Max RCF: 15700×g Tube Size: Φ29x116mm</p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml Round Bottom Max Speed: 12000r/min Max RCF: 15700×g Tube Size: Φ29x111mm</p>
<p>No.5-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 48x1.5/2.2ml Max Speed: 12000r/min Max RCF: 15700×g Tube Size: Φ11x42mm</p>	<p>No.6-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x100ml Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ37x123mm</p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml Round Bottom Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ29x111mm</p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml Conical Bottom Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ29x116mm</p>
<p>No.6-3</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x15ml Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ17x121mm</p>	<p>No.6-4</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x10ml Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ16x86mm</p>	<p>No.7</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x10ml Max Speed: 16000r/min Max RCF: 18950×g Tube Size: Φ16x86mm</p>	<p>No.8-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x15ml Max Speed: 13000r/min Max RCF: 14930×g Tube Size: Φ17x121mm</p>
<p>No.8-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x30ml Max Speed: 13000r/min Max RCF: 14930×g Tube Size: Φ25.5x100mm</p>	<p>No.9</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x0.2ml PCR Strip Max Speed: 13000r/min Max RCF: 14640×g</p>	<p>No.10</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x100ml Max Speed: 8000r/min Max RCF: 7720×g Tube Size: Φ37x123mm</p>	<p>No.11</p>  <p>Rotor: Microplate Rotor Capacity: 2x2x48holex0.2ml Max Speed: 4000r/min Max RCF: 1500×g max: Φ128x48x60mm</p>



# TG-16 Benchtop High Speed Centrifuge



## FEATURES

- ◆ Variable frequency motor, maintenance free; LCD touch screen for viewing and setting parameters.
- ◆ Electronic lid lock, controlled by independent motor.
- ◆ Automatic rotor recognition to prevent over-speed.
- ◆ Elastic rotor lock method, it's convenient and fast to change rotor.
- ◆ 40 acceleration and deceleration stages; User can set and store up to 1000 programs.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance in the whole spin process.
- ◆ Automatic fault diagnosis and record.
- ◆ 5-stage centrifugation is available.
- ◆ Stores up to 1000 run histories, which can be exported via USB.
- ◆ User can set password to lock the machine to prevent misoperation.
- ◆ Steel housing and 304 stainless steel chamber
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

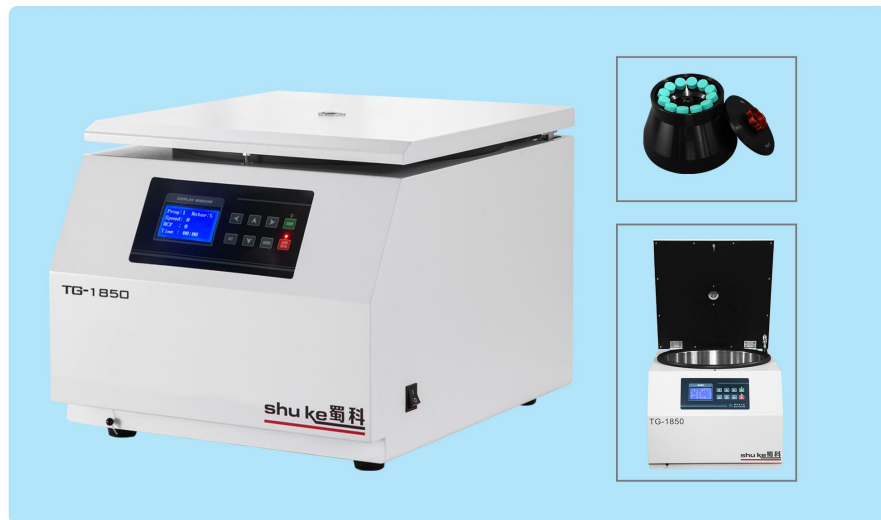
## TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range
TG-16	16500rpm	24760×g	6x100ml(8000rpm)	±10 r/min	1s-99h59m59s
	Noise	Power Supply(AC)	Dimension (mm)	Weight	Power
	≤60dB(A)	220V 50Hz 10A	445x360x315	29Kg	500W

## ROTOR PARAMETER

<p>No.1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x1.5/2.2ml Max Speed: 16500r/min Max RCF: 19000×g Tube Size: Φ11x42mm</p>	<p>No.2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x5ml Max Speed: 15000r/min Max RCF: 18240×g Tube Size: Φ14x54mm</p>	<p>No.3-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x1.5/2.2ml Max Speed: 16000r/min Max RCF: 24760×g Tube Size: Φ11x42mm</p>	<p>No.3-2</p>  <p>Rotor: Fixed Angle Rotor (aerosol tight) Capacity: 24x1.5/2.2ml Max Speed: 16000r/min Max RCF: 24760×g Tube Size: Φ11x42mm</p>
<p>No.4-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x10ml Max Speed: 13000r/min Max RCF: 15630×g Tube Size: Φ16x86mm</p>	<p>No.4-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 36x1.5/2.2ml Max Speed: 13000r/min Max RCF: 15630×g Tube Size: Φ11x42mm</p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml <small>Critical Bottom</small> Max Speed: 12000r/min Max RCF: 15700×g Tube Size: Φ29x116mm</p>	<p>No.5-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x50ml <small>Round Bottom</small> Max Speed: 12000r/min Max RCF: 15700×g Tube Size: Φ29x111mm</p>
<p>No.5-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 48x1.5/2.2ml Max Speed: 12000r/min Max RCF: 15700×g Tube Size: Φ11x42mm</p>	<p>No.6-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x100ml Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ37x123mm</p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml <small>Round Bottom</small> Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ29x111mm</p>	<p>No.6-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x50ml <small>Critical Bottom</small> Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ29x116mm</p>
<p>No.6-3</p>  <p>Rotor: Fixed Angle Rotor Capacity: 12x15ml Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ17x121mm</p>	<p>No.6-4</p>  <p>Rotor: Fixed Angle Rotor Capacity: 24x10ml Max Speed: 10000r/min Max RCF: 11020×g Tube Size: Φ16x86mm</p>	<p>No.7</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x10ml Max Speed: 16000r/min Max RCF: 18950×g Tube Size: Φ16x86mm</p>	<p>No.8-1</p>  <p>Rotor: Fixed Angle Rotor Capacity: 8x15ml Max Speed: 13000r/min Max RCF: 14930×g Tube Size: Φ17x121mm</p>
<p>No.8-2</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x30ml Max Speed: 13000r/min Max RCF: 14930×g Tube Size: Φ25.5x100mm</p>	<p>No.9</p>  <p>Rotor: Fixed Angle Rotor Capacity: 4x0.2ml PCR Strip Max Speed: 13000r/min Max RCF: 14640×g</p>	<p>No.10</p>  <p>Rotor: Fixed Angle Rotor Capacity: 6x100ml Max Speed: 8000r/min Max RCF: 7720×g Tube Size: Φ37x123mm</p>	<p>No.11</p>  <p>Rotor: Microplate Rotor Capacity: 2x2x48holex0.2ml Max Speed: 4000r/min Max RCF: 1500×g max: Φ128x48x60mm</p>

# TG-1850 Benchtop High Speed Multi-functional Centrifuge





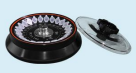


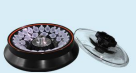











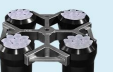

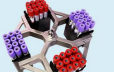




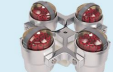

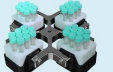

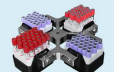
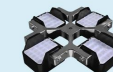
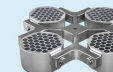
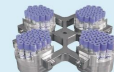
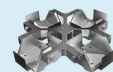
## FEATURES

- ◆ Variable frequency motor, microprocessor control.
- ◆ Electronic lid lock, imbalance protection.
- ◆ Automatic rotor recognition to ensure safety.
- ◆ Elastic rotor lock method, it's convenient and fast to change rotor.
- ◆ 19 acceleration and deceleration stages; User can set and store 12 programs.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance in the whole spin process.
- ◆ Automatic fault diagnosis.
- ◆ LCD screen to display parameters.
- ◆ Steel housing and 304 stainless steel chamber
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

## TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range
TG-1850	18500rpm	24760×g	4x500ml(4000rpm)	±10 r/min	1min-9999min59s /Inching/Continuous
	Noise	Power Supply(AC)	Dimension (mm)	Weight	Power
	≤60dB(A)	220V 50Hz 10A	550x450x390	60Kg	750W

## ROTOR PARAMETER

 <p><b>No.1</b> Rotor: Fixed Angle Rotor Capacity: 12x1.5/2.2ml Max Speed: 18500r/min Max RCF: 23800×g Tube Size: Φ11×42mm</p>	 <p><b>No.2</b> Rotor: Fixed Angle Rotor Capacity: 12x 5ml Max Speed: 15000r/min Max RCF: 16270×g Tube Size: Φ14×54mm</p>	 <p><b>No.3-1</b> Rotor: Fixed Angle Rotor Capacity: 24x1.5/2.2ml Max Speed: 15000r/min Max RCF: 21630×g Tube Size: Φ11×42mm</p>	 <p><b>No.3-2</b> Rotor: Fixed Angle Rotor Capacity: 24x1.5/2.2ml (aerosol tight) Max Speed: 16000r/min Max RCF: 24760×g Tube Size: Φ11×42mm</p>	 <p><b>No.4-1</b> Rotor: Fixed Angle Rotor Capacity: 12×10ml Max Speed: 13000r/min Max RCF: 15620×g Tube Size: Φ16×86mm</p>	 <p><b>No.4-2</b> Rotor: Fixed Angle Rotor Capacity: 36x1.5/2.2ml Max Speed: 13000r/min Max RCF: 15620×g Tube Size: Φ11×42mm</p>
 <p><b>No.4-3</b> Rotor: Fixed Angle Rotor Capacity: 8×50ml Max Speed: 13000r/min Max RCF: 15620×g Tube Size: Φ17×121mm</p>	 <p><b>No.5-1</b> Rotor: Fixed Angle Rotor Capacity: 6×50ml Conical Bottom Max Speed: 12000r/min Max RCF: 15970×g Tube Size: Φ29×116mm</p>	 <p><b>No.5-2</b> Rotor: Fixed Angle Rotor Capacity: 6×50ml Round Bottom Max Speed: 12000r/min Max RCF: 15970×g Tube Size: Φ29×111mm</p>	 <p><b>No.6-1</b> Rotor: Fixed Angle Rotor Capacity: 48×1.5/2.2ml Max Speed: 12000r/min Max RCF: 10640×g Tube Size: Φ11×42mm</p>	 <p><b>No.6-2</b> Rotor: Fixed Angle Rotor Capacity: 4×100ml Max Speed: 10000r/min Max RCF: 10640×g Tube Size: Φ37×123mm</p>	 <p><b>No.6-3</b> Rotor: Fixed Angle Rotor Capacity: 12×15ml Max Speed: 10000r/min Max RCF: 10640×g Tube Size: Φ17×121mm</p>
 <p><b>No.7</b> Rotor: Fixed Angle Rotor Capacity: 6×100ml Max Speed: 8000r/min Max RCF: 7720×g Tube Size: Φ37×123mm</p>	 <p><b>No.8</b> Rotor: Microplate Rotor Capacity: 2×3×96hole×0.2ml Max Speed: 4000r/min Max RCF: 1970×g max: 128×87×60mm</p>	 <p><b>No.9</b> Rotor: Swing Out Rotor Capacity: 4×250ml Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ63×121mm</p>	 <p><b>No.9</b> Adaptor Capacity: 8×50ml Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ29.5×116mm</p>	 <p><b>No.9</b> Adaptor Capacity: 20×15ml Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ17×121mm</p>	 <p><b>No.9</b> Adaptor Capacity: 36×10ml Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ16.5×86-110mm</p>
 <p><b>No.9</b> Adaptor Capacity: 40×7ml Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ13×100mm</p>	 <p><b>No.9</b> Rotor: Swing Out Rotor Capacity: 48×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ13×75-100mm</p>	 <p><b>No.9</b> Rotor: Swing Out Rotor Capacity: 64×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ13×75-100mm</p>	 <p><b>No.10</b> Rotor: Swing Out Rotor Capacity: 4×500ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ80×137mm</p>	 <p><b>No.10</b> Adaptor(aerosol tight) Capacity: 16×50ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ29×116mm</p>	 <p><b>No.10</b> Adaptor(aerosol tight) Capacity: 36×10ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ17×121mm</p>
 <p><b>No.10</b> Adaptor(aerosol tight) Capacity: 76x2-7ml blood tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ13×75-100mm</p>	 <p><b>No.10</b> Rotor: Swing Out Rotor Capacity: 20×50ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ29.5×116mm</p>	 <p><b>No.10</b> Rotor: Swing Out Rotor Capacity: 40×15ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ17×121mm</p>	 <p><b>No.10</b> Rotor: Swing Out Rotor Capacity: 80×10ml blood tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ15×100mm</p>	 <p><b>No.10</b> Rotor: Swing Out Rotor Capacity: 112×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ13×75-100mm</p>	 <p><b>No.10</b> Rotor: Swing Out Rotor Capacity: 100×1.5ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ11×42mm</p>
 <p><b>No.10</b> Rotor: Swing Out Rotor Capacity: 148×5ml RIA tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ13×75-100mm</p>	 <p><b>No.10</b> Rotor: Swing Out Rotor Capacity: 96×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ13×75-100mm</p>	 <p><b>No.10</b> Rotor: Microplate Rotor Capacity: 4×2×96hole×0.2ml Max Speed: 4000r/min Max RCF: 3400×g max: 128×87×60mm</p>			

## TG-15 Benchtop High Speed Small Capacity Centrifuge



### FEATURES

- ◆ Variable frequency motor,microprocessor control.
- ◆ LED digital display.
- ◆ All steel housing,304 stainless steel chamber.
- ◆ Electronic lid lock,controlled by independent motor.
- ◆ Can store 12 programs,10 acceleration and deceleration stages.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.
- ◆ Unique heat dissipation system,after 20 minutes centrifugation,the temperature rising of chamber is less than 12°C.

### TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range
TG-15	15000rpm	21630×g	12x5ml	±20 r/min	1min-99min59s /Inching
	Noise	Power Supply(AC)	Dimension (mm)	Weight	Power
	≤58dB(A)	220V 50Hz 10A	365x300x260	18Kg	500W

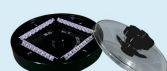
### ROTOR PARAMETER

No.1



Rotor: Fixed Angle Rotor  
Capacity: 24x1.5/2.2ml  
Max Speed: 15000r/min  
Max RCF: 21630×g  
Tube Size: Φ11x42mm

No.2



Rotor: Fixed Angle Rotor  
Capacity: 4x0.2ml PCR8 Strip  
Max Speed: 15000r/min  
Max RCF: 19600×g

No.3



Rotor: Fixed Angle Rotor  
Capacity: 12x5ml  
Max Speed: 15000r/min  
Max RCF: 18240×g  
Tube Size: Φ14x54mm

## H16K Benchtop High Speed Micro Centrifuge



### TECHNICAL PARAMETER

Model	H16K
Max Speed	16500rpm
Max RCF	18262×g
Max Capacity	8x5ml
Speed Accuracy	±10 r/min
Time Range	1s-99min59s/Inching
ACC/DEC	10s
Noise	≤56dB(A)
Power	AC 100V-250V 50/60Hz 3A
Dimension(mm)	240x220x170
Weight	3.8Kg
Power	100W

### FEATREUS

### BLDC MOTOR

- ◆ **Small Temperature Rise:** Temperature rise≤6°C
- ◆ **Low Noise:** Noise≤56dB(A)
- ◆ **Maintenance Free:**Brushless motor,maintenance free
- ◆ **Rapid Acceleration:**adjustable speed rate, Speed up to max speed in highest rate just needs10s

### MORE CONVENIENT

- ◆ **Resistive Touch Screen**
  - Color LCD screen, parameter display in full digits
  - Automatic conversion between RPM and RCF
  - Resistive touch screen, the device can be operated normally even with gloves
  - Can change parameters under running
- ◆ **Intelligent Door Lock:**Steel door buckle + smart door lock, making centrifugal work more convenient; Automatic induction door lock, actively monitor the opening and closing state of the door, and automatically open the door after centrifugation, which is convenient for taking out samples.
- ◆ **Damping Door Open:**The damping door design, after the centrifugal work is completed, the door automatically opens slowly,there is no vibration in the whole process;
- ◆ **Bionic Suction Cup Base:**It adopts a bionic suction cup with strong adsorption, which is simple to fix and easy to move.
- ◆ **Magnetic Rotor Lid:**The highly magnetic self-adsorbing rotor lid

### ROTOR PARAMETER

No.1



Rotor: Fixed Angle Rotor  
Capacity: 12x1.5/2.2ml  
Max Speed: 16500r/min  
Max RCF: 18262×g

No.2



Rotor: Fixed Angle Rotor  
Capacity: 8x5ml  
Max Speed: 16500r/min  
Max RCF: 18262×g

# H15S Benchtop High Speed Small Capacity Centrifuge



## TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Capacity	Speed Accuracy	Time Range
H15S	15000rpm	15093×g	<ul style="list-style-type: none"> <li>12x1.5/2.2ml (0.5ml/0.2ml adaptor)</li> <li>8x5ml(optional)</li> </ul>	±10 r/min	1s-99min59s /Inching
ACC/DEC	Noise	Power Supply(AC)	Dimension (mm)	Weight	Power
10s	≤56dB(A)	100V-250V 50/60Hz 3A	240x220x170	3.8Kg	100W

## FEATURES

### BLDC MOTOR

- ◆ **Small Temperature Rise:** Temperature rise ≤6°C
- ◆ **Low Noise:** Noise ≤56dB(A)
- ◆ **Maintenance Free:** Brushless motor, maintenance free
- ◆ **Rapid Acceleration:** adjustable speed rate, Speed up to max speed in highest rate just needs 10s

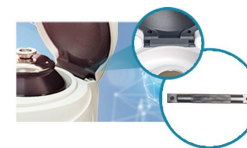
## MORE CONVENIENT

- ◆ **Resistive Touch Screen**
  - Color LCD screen, parameter display in full digits
  - Automatic conversion between RPM and RCF
  - Resistive touch screen, the device can be operated normally even with gloves
  - Can change parameters under running
- ◆ **Intelligent Door Lock:** Steel door buckle + smart door lock, making centrifugal work more convenient; Automatic induction door lock, actively monitor the opening and closing state of the door, and automatically open the door after centrifugation, which is convenient for taking out samples.
- ◆ **Damping Door Open:** The damping door design, after the centrifugal work is completed, the door automatically opens slowly, there is no vibration in the whole process;
- ◆ **Bionic Suction Cup Base:** It adopts a bionic suction cup with strong adsorption, which is simple to fix and easy to move.
- ◆ **Magnetic Rotor Lid:** The highly magnetic self-adsorbing rotor lid

## SAFER



**Aluminium Alloy Inner Cover:** The super-hard aluminum alloy inner cover makes the operation safer; at the same time, the internal air outlet can quickly dissipate heat.



**10mm Stainless Steel Shaft:** The connection between the door cover and the body is made of stainless steel shaft, and the door has been opened and closed for more than 100,000 times without damage in experiment, making it more secure to use.



**Stainless Steel Rotor Lid:** The special stainless steel rotor inner cover is equipped with a magnetic pick-and-place interface, which saves time and effort when picking and placing samples.

# TD-6M/TD-5M Benchtop Low Speed Large Capacity Centrifuge



## FEATURES

- ◆ Variable frequency motor, microprocessor control.
- ◆ Independent motor controlled electronic lid lock.
- ◆ 19 acceleration and deceleration stages.
- ◆ User can set and store 12 programs.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance in the whole spin process.
- ◆ Automatic fault diagnosis.
- ◆ LCD screen to display parameters.
- ◆ Steel housing and 304 stainless steel chamber.
- ◆ RCF can be set directly.
- ◆ User can modify parameters when rotor is running.

## TECHNICAL PARAMETER

Model	TD-6M	TD-5M
Max Speed	6000 r/min	5000r/min
Max RCF	5200xg	5200xg
Max Capacity	4x500ml(4000rpm)	
Speed Accuracy	±10r/min	
Time Range	1min-9999min/59s /Inching/Continuous	
Noise	≤60dB(A)	
Power Supply	AC 220V 50HZ 10A	
Dimension	560x450x415mm	
Weight	53kg	
Power	600W	

## ROTOR PARAMETER

 <p>Rotor: Swing Out Rotor Capacity: 4×100ml Max Speed: 5000r/min Max RCF: 4650×g Tube Size: Φ38×114mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 4×50ml Max Speed: 5000r/min Max RCF: 4650×g Tube Size: Φ30×116mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 32×15ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ17×121mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 8×50ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ30×116mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 8×100ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ38×114mm</p>
 <p>Rotor: Swing Out Rotor Capacity: 48×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ13×75-100mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 64×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ13×75-100mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 4×250ml Max Speed: 5000r/min Max RCF: 5200×g Tube Size: Φ63×111mm</p>	<p>Adaptor: 8×50ml Tube Size: Φ29.5×116mm</p> <p>Adaptor: 4×100ml Tube Size: Φ38×114mm</p> <p>Adaptor: 36×10ml Tube Size: Φ16.5×86-110mm</p> <p>Adaptor: 40×7ml Tube Size: Φ13×100mm</p> <p>Adaptor: 20×15ml Tube Size: Φ17×121mm</p>	 <p>Rotor: Microplate Rotor Capacity: 2×3×96hole×0.2ml Max Speed: 4000r/min Max RCF: 1970×g max: 128×87×60mm</p>
 <p>Rotor: Swing Out Rotor Capacity: 4×500ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ80×137mm</p>	 <p>Adaptor(aerosol tight) Capacity: 16×50ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ29×116mm</p>	 <p>Adaptor(aerosol tight) Capacity: 36×15ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ17×121mm</p>	 <p>Adaptor(aerosol tight) Capacity: 76×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ13×75-100mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 20×50ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ29.5×116mm</p>
 <p>Rotor: Swing Out Rotor Capacity: 40×15ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ17×121mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 80×10ml blood tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ15×100mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 112×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ13×75-100mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 100×1.5ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ11×42mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 148×5ml RIA tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ13×75-100mm</p>
 <p>Rotor: Swing Out Rotor Capacity: 96×2-7ml blood tube Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ13×75-100mm</p>	 <p>Rotor: Microplate Rotor Capacity: 4×2×96hole×0.2ml Max Speed: 4000r/min Max RCF: 3400×g max: 128×87×60mm</p>	 <p>Rotor: Swing Out Rotor Capacity: 4×250ml Max Speed: 4000r/min Max RCF: 3400×g Tube Size: Φ60×164mm</p>	 <p>Rotor: Fixed Angle Rotor (Only fit TD-6M) Capacity: 6×50ml Max Speed: 6000r/min Max RCF: 5120×g Tube Size: Φ29×116mm</p>	 <p>Rotor: Fixed Angle Rotor Capacity: 12×15ml Max Speed: 6000r/min Max RCF: 5120×g Tube Size: Φ17×121mm</p>

## TD-600 Benchtop Low Speed Centrifuge



### FEATURES

- ◆ Variable frequency motor, maintenance free.
- ◆ LCD touch screen for viewing and setting parameters.
- ◆ Electronic lid lock, controlled by independent motor.
- ◆ 40 acceleration and deceleration stages.
- ◆ User can set and store up to 1000 programs.
- ◆ Automatic fault diagnosis and record.
- ◆ 5-stage centrifugation is available.
- ◆ Stores up to 1000 run histories, which can be exported via USB.
- ◆ User can set password to lock the machine to prevent misoperation.
- ◆ Steel housing and 304 stainless steel chamber.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.


### TECHNICAL PARAMETER


Model	TD-600
Max Speed	6000rpm
Max RCF	5120×g
Max Capacity	6×50ml
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Time Range	1S-99h59m59s
ACC/DEC	40 stages
Dimension(mm)	495×400×310
Power Supply	AC 220V 50HZ 10A
Weight	25Kg
Power	500W

### ROTOR PARAMETER

No. 1-1  
  
 Rotor: Fixed Angle Rotor  
 Capacity: 12x15ml  
 Max Speed: 6000r/min  
 Max RCF: 5120×g  
 Tube Size: Φ17x121mm

No. 1-2  
  
 Rotor: Fixed Angle Rotor  
 Capacity: 6x50ml  
 Max Speed: 6000r/min  
 Max RCF: 5120×g  
 Tube Size: Φ29x116mm

No. 2  
  
 Rotor: Swing Out Rotor  
 Capacity: 24x7ml blood tube  
 Max Speed: 5000r/min  
 Max RCF: 4000×g  
 Tube Size: Φ13x75-100mm

No. 3-1  
  
 Rotor: Swing Out Rotor  
 Capacity: 16x15ml  
 Max Speed: 5000r/min  
 Max RCF: 4620×g  
 Tube Size: Φ17x121mm

No. 3-2  
  
 Rotor: Swing Out Rotor  
 Capacity: 8x15ml  
 Max Speed: 5000r/min  
 Max RCF: 4620×g  
 Tube Size: Φ17x121mm

No. 4  
  
 Rotor: Swing Out Rotor  
 Capacity: 4x50ml  
 Max Speed: 4000r/min  
 Max RCF: 2690×g  
 Tube Size: Φ29x116mm

## TD-500 Benchtop Low Speed Centrifuge



### FEATURES

- ◆ Variable frequency motor, maintenance free.
- ◆ LCD touch screen for viewing and setting parameters.
- ◆ Electronic lid lock, controlled by independent motor.
- ◆ 40 acceleration and deceleration stages.
- ◆ User can set and store up to 1000 programs.
- ◆ Automatic fault diagnosis and record.
- ◆ 5-stage centrifugation is available.
- ◆ Stores up to 1000 run histories, which can be exported via USB.
- ◆ User can set password to lock the machine to prevent misoperation.
- ◆ Steel housing and 304 stainless steel chamber.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

### TECHNICAL PARAMETER

Model	TD-500
Max Speed	5000rpm
Max RCF	4620×g
Max Capacity	6×50ml
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Time Range	1s-99h59m59s
ACC/DEC	40 stages
Dimension(mm)	495×400×310
Power Supply	AC 220V 50HZ 10A
Weight	25Kg
Power	500W

### ROTOR PARAMETER

No. 1-1  
  
 Rotor: Fixed Angle Rotor  
 Capacity: 12x15ml  
 Max Speed: 5000r/min  
 Max RCF: 3550×g  
 Tube Size: Φ17x121mm

No. 1-2  
  
 Rotor: Fixed Angle Rotor  
 Capacity: 6x50ml  
 Max Speed: 5000r/min  
 Max RCF: 3550×g  
 Tube Size: Φ29x116mm

No. 2  
  
 Rotor: Swing Out Rotor  
 Capacity: 24x7ml blood tube  
 Max Speed: 5000r/min  
 Max RCF: 4000×g  
 Tube Size: Φ13x75-100mm

No. 3-1  
  
 Rotor: Swing Out Rotor  
 Capacity: 16x15ml  
 Max Speed: 5000r/min  
 Max RCF: 4620×g  
 Tube Size: Φ17x121mm

No. 3-2  
  
 Rotor: Swing Out Rotor  
 Capacity: 8x15ml  
 Max Speed: 5000r/min  
 Max RCF: 4620×g  
 Tube Size: Φ17x121mm

No. 4  
  
 Rotor: Swing Out Rotor  
 Capacity: 4x50ml  
 Max Speed: 4000r/min  
 Max RCF: 2690×g  
 Tube Size: Φ29x116mm

## TD-420 Benchtop Low Speed Centrifuge



### FEATURES

- ◆ Variable frequency motor, maintenance free.
- ◆ LCD touch screen for viewing and setting parameters.
- ◆ Electronic lid lock, controlled by independent motor.
- ◆ 40 acceleration and deceleration stages.
- ◆ User can set and store up to 1000 programs.
- ◆ Automatic fault diagnosis and record.
- ◆ 5-stage centrifugation is available.
- ◆ Stores up to 1000 run histories, which can be exported via USB.
- ◆ User can set password to lock the machine to prevent misoperation.
- ◆ Steel housing and 304 stainless steel chamber.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

### TECHNICAL PARAMETER

Model	TD-420
Max Speed	4200rpm
Max RCF	3060×g
Max Capacity	4×100ml
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Time Range	1s-99h59m59s
ACC/DEC	40 stages
Dimension(mm)	495×400×310
Power Supply	AC 220V 50HZ 10A
Weight	25Kg
Power	500W

### ROTOR PARAMETER

No.1



Rotor: Swing Out Rotor  
Capacity: 4x50ml  
Max Speed: 4200r/min  
Max RCF: 2820×g  
Tube Size: Φ30×116mm

No.2



Rotor: Swing Out Rotor  
Capacity: 4×100ml  
Max Speed: 4200r/min  
Max RCF: 2860×g  
Tube Size: Φ38×114mm

No.3



Rotor: Swing Out Rotor  
Capacity: 16×15ml  
Max Speed: 4200r/min  
Max RCF: 3060×g  
Tube Size: Φ17×121mm

No.4



Rotor: Swing Out Rotor  
Capacity: 8×50ml  
Max Speed: 4200r/min  
Max RCF: 3060×g  
Tube Size: Φ30×116mm

## TD-400 Benchtop Low Speed Centrifuge



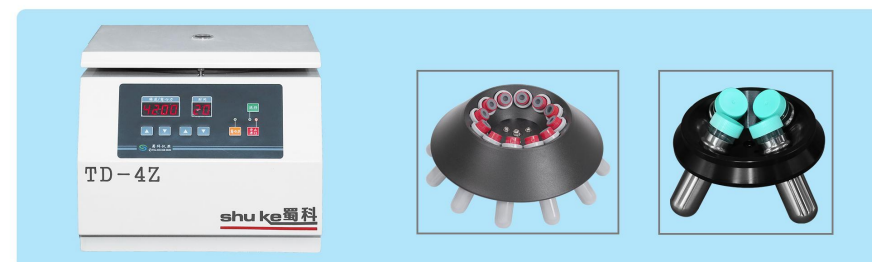
### FEATURES

- ◆ Variable frequency motor; Digital display.
- ◆ Steel housing and stainless steel chamber.
- ◆ Electronic lid lock to ensure safety.
- ◆ Aluminium alloy rotor.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Can change parameters under operation.
- ◆ 9 level acceleration and deceleration.

### TECHNICAL PARAMETER

Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range	Noise	Power Supply	Dimension	Weight	Power
4200rpm	2680×g	24x10ml Fixed Angle Rotor (Blood tube)	±20 r/min	1min-99min	≤60dB(A)	AC 220V 50Hz 5A	375x300x260mm	17Kg	250W

## TD-4Z Benchtop Low Speed Centrifuge



### FEATURES

- ◆ Variable frequency motor; Digital display.
- ◆ Steel housing and stainless steel chamber.
- ◆ Electronic lid lock to ensure safety.
- ◆ Aluminium alloy rotor.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Can change parameters under operation.
- ◆ 9 level acceleration and deceleration.

### TECHNICAL PARAMETER

Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range	Noise	Power Supply	Dimension	Weight	Power
4200rpm	2680×g	12x20ml Fixed Angle Rotor 4x50ml Fixed Angle Rotor	±20 r/min	1min-99min	≤55dB(A)	AC 220V 50Hz 5A	440x340x290mm	17Kg	200W

## TD-5Z Bechtop Low Speed Centrifuge



### ADVANTAGES

#### ◆ Variable Frequency Motor

Variable frequency motor has high speed accuracy, long life and low noise, it's maintenance free.

#### ◆ Stores up to 1000 programs

User can save frequently used parameters as program, this centrifuge support storing 1000 programs

#### ◆ Automatic fault diagnosis

Automatic fault diagnosis. Monitoring important parameters like current, voltage to protect machine.

### FEATURES

- ◆ LED digital display parameters.
- ◆ Program No., Rotor No., Speed and Time display together.
- ◆ All steel housing, 304 stainless steel chamber.
- ◆ 20 acceleration and deceleration stages.
- ◆ 5-stage centrifugation is available.
- ◆ Timing model: hour/minute or minute/second.
- ◆ Independent motor controlled electronic lid lock.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

### TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range
TD-5Z	5000rpm	4650×g	8×100ml(4000rpm)	±10 r/min	1s-99H59min59s/Inching
	Noise	Power Supply(AC)	Dimension (mm)	Weight	Power
	≤60dB(A)	220V 50Hz 10A	550×430×350	40Kg	500W

### ROTOR PARAMETER

No.1



Rotor: Swing Out Rotor  
Capacity: 4×100ml  
Max Speed: 5000r/min  
Max RCF: 4650×g  
Tube Size: Φ38×114mm

No.1



Rotor: Swing Out Rotor  
Capacity: 4×50ml  
Max Speed: 5000r/min  
Max RCF: 4650×g  
Tube Size: Φ30×116mm

No.2



Rotor: Swing Out Rotor  
Capacity: 32×15ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ17×121mm  
Can choose adaptor for blood tube

No.2



Rotor: Swing Out Rotor  
Capacity: 24×15ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ17×121mm  
Can choose adaptor for blood tube

No.2



Rotor: Swing Out Rotor  
Capacity: 8×50ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ30×116mm

No.2



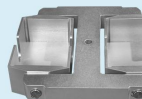
Rotor: Swing Out Rotor  
Capacity: 8×100ml  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ38×114mm

No.2



Rotor: Swing Out Rotor  
Capacity: 48×2-7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 2980×g  
Tube Size: Φ13×75-100mm

No.3



Rotor: Microplate Rotor  
Capacity: 2×3×96holex0.2ml  
Max Speed: 4000r/min  
Max RCF: 1970×g  
max: 128×87×60mm



# TD-5B/TD-5 Benchtop Low Speed Centrifuge



## FEATURES

- ◆ Variable frequency motor, microprocessor control.
- ◆ LED digital display parameters.
- ◆ Program No., Rotor No., Speed and Time displayed together.
- ◆ All steel housing, 304 stainless steel chamber
- ◆ Stores up to 1000 programs.
- ◆ 20 acceleration and deceleration stages.
- ◆ 5-stage centrifugation is available.
- ◆ Timing model: hour/minute or minute/second.
- ◆ Electronic lid lock.
- ◆ Automatic fault diagnosis.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Can modify parameters when rotor is running.

## TECHNICAL PARAMETER

Model	TD-5B	TD-5
Display	LCD	LED
Time Range	1s-99h59m59s /Inching	1s-99h59m59s /Inching
Max Speed	5000 r/min	
Max RCF	4650xg	
Max Capacity	4x250ml(4000rpm)	
Speed Accuracy	±10r/min	
Motor	Variable frequency motor	
Noise	≤60dB(A)	
Power	AC 220V 50HZ 10A	
Dimension	550x430x350mm	
Weight	40kg	
Power	500W	

## ROTOR PARAMETER

No.1



Rotor: Swing Out Rotor  
Capacity: 4x100ml  
Max Speed: 5000r/min  
Max RCF: 4650xg  
Tube Size: Φ38×114mm

No.1



Rotor: Swing Out Rotor  
Capacity: 4x50ml  
Max Speed: 5000r/min  
Max RCF: 4650xg  
Tube Size: Φ30×116mm

No.2



Rotor: Swing Out Rotor  
Capacity: 32x15ml  
Max Speed: 4000r/min  
Max RCF: 2980xg  
Tube Size: Φ17×121mm  
Can choose adaptors for blood tube

No.2



Rotor: Swing Out Rotor  
Capacity: 8x50ml  
Max Speed: 4000r/min  
Max RCF: 2980xg  
Tube Size: Φ30×116mm

No.2



Rotor: Swing Out Rotor  
Capacity: 8x100ml  
Max Speed: 4000r/min  
Max RCF: 2980xg  
Tube Size: Φ38×114mm

No.2



Rotor: Swing Out Rotor  
Capacity: 24x15ml  
Max Speed: 4000r/min  
Max RCF: 2980xg  
Tube Size: Φ17×121mm  
Can choose adaptors for blood tube

No.3



Rotor: Swing Out Rotor  
Capacity: 4x250ml  
Max Speed: 4000r/min  
Max RCF: 2980xg  
Tube Size: Φ63×111mm

Adaptor: 8x50ml  
Tube Size: Φ29.5×116mm

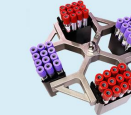
Adaptor: 4x100ml  
Tube Size: Φ38×114mm

Adaptor: 36x10ml  
Tube Size: Φ16.5×86-110mm

Adaptor: 40x7ml  
Tube Size: Φ13×100mm

Adaptor: 20x15ml  
Tube Size: Φ17×121mm

No.3



Rotor: Swing Out Rotor  
Capacity: 48x2-7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100xg  
Tube Size: Φ13×75-100mm

No.3



Rotor: Swing Out Rotor  
Capacity: 64x2-7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 3100xg  
Tube Size: Φ13×75-100mm

No.4



Rotor: Microplate Rotor  
Capacity: 2x3x96holex0.2ml  
Max Speed: 4000r/min  
Max RCF: 1970xg  
max: 128x87x60mm

## Mini Portable Centrifuge



### FEATURES

- ◆ The machine material is high-strength engineering plastics.
- ◆ Brushless motor, ultra-low noise, stable operation.
- ◆ Digital Display. Closed loop control, real-time speed measurement, high speed accuracy.
- ◆ Adjustable acceleration time to adapt to different experiments.
- ◆ With electronic brake function, stop within 3 seconds, saving experiment time.
- ◆ Automatically open the door when stop.
- ◆ Adjustable timer from 1s to 99min59s.
- ◆ Adjustable speed: 800rpm to the highest speed.
- ◆ Adopt AC100-240V wide range power input.
- ◆ Three-in-one rotor (8\*1.5/2ml+6\*0.5ml+2\*8\*0.2ml), no need to replace the rotor.
- ◆ Can run 6 PCR strips at a time.

### TECHNICAL PARAMETER

Model	Mini-10K	Mini-7K	Mini-6k
Max Speed	10000r/min	7500r/min	6000r/min
Max RCF	6100xg	3450xg	2200xg
Rotor	Three in one rotor:8x1.5ml+6x0.5ml+2x8x0.2ml (Can fit flat tube and RIA tube) PCR strip rotor: 6 PCR strips		
Noise	≤57dB(A)	≤52dB(A)	≤52dB(A)
Time Range	1s-99min59s		
Power Supply	AC 100-240V 50/60HZ		
Dimension	200x170x130mm		
Weight	1.2kg		

## L4K Microplate Minicentrifuge



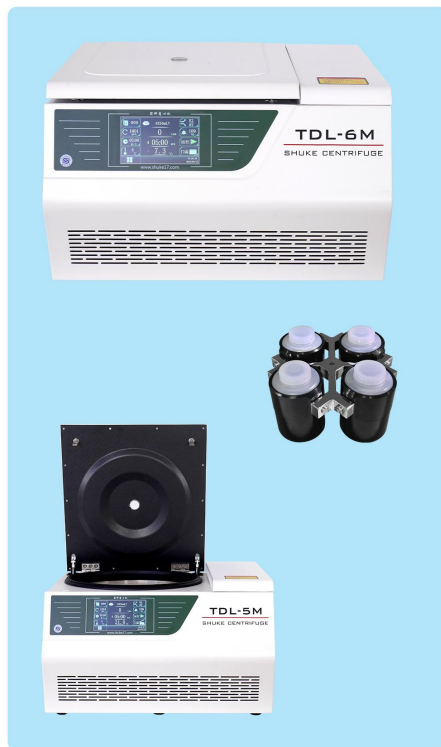
### FEATURES

- ◆ Applicable to various standard PCR microplates with/without skirts.
- ◆ Instantaneous centrifugation function, automatic braking, can set max speed.
- ◆ DC brushless motor is maintenance-free, faster acceleration and deceleration rate.
- ◆ LCD screen, user-friendly programming, with inching function, time and speed adjustable.
- ◆ Can change parameters under operation.
- ◆ Unique appearance design, small size, no space occupation, simple operation, full cover opened at 90°, easy to take microplate.
- ◆ It can quickly drop off the hanging wall droplets and be used before and after the PCR experiment, significantly improving the experimental effect.

### TECHNICAL PARAMETER

Speed	500-3000rpm
Max RCF	600xg
Capacity	2x96 well PCR plate
Time Range	Inching, 1s-99s or 1min-99min
Input Voltage	DC 24V
Power Supply	AC 100-230V 50/60HZ
Dimension	230x195x190mm
Weight	2.6kg

# TDL-6M/TDL-5M Benchtop Low Speed Refrigerated Centrifuge



## TECHNICAL PARAMETER

Model	TDL-6M	TDL-5M
Max Speed	6000rpm	5000rpm
Max RCF	5200×g	5200×g
Max Capacity	4×750ml	
Speed Accuracy	±10 r/min	
Temp. Range	-20°C~40°C	
Temp. Accuracy	±1 °C	
Noise	≤56dB (A)	
Time Range	1s-99h59m59s	
Power Supply	AC 220V 50HZ 15A	
Dimension	600×680×420mm	
Power	1.5KW	
Weight	108Kg	

## FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Setting parameters by directly inputting digits , accurate to ones place.
- ◆ Intelligent status display,real-time and real values.
- ◆ Imbalance detection:Three axis gyroscope to detect imbalance dynamically in the whole spin process.
- ◆ All steel housing, 316 stainless steel chamber.
- ◆ PID dynamic temperature control, fast and accurate.
- ◆ Good compressor unit, CFC-free,heating and cooling double-loop temperature control, ±1°C high temperature accuracy.
- ◆ Temperature range from -20°C to 40°C in 1°C steps.
- ◆ Stores up to 1000 programs, with password protection.
- ◆ Stores up to 1000 run histories, which is convenient for users to trace records.
- ◆ Can set password to the centrifuge to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Curve display:Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ With ECO energy-saving module.

## ROTOR PARAMETER

No.	Image	Capacity	Tube Size
No.1		4×100ml	Φ38×114mm
No.2		4×50ml	Φ30×116mm
No.3		3×15ml	Φ17×121mm
No.4		2×3×96hole×0.2ml	Φ128×87×60mm
No.5		4×500ml	Φ80×137mm
No.6		16×50ml	Φ29×116mm
No.7		36×15ml	Φ17×121mm
No.8		76×2-7ml blood tube	Φ13×75~100mm
No.9		20×50ml	Φ29.5×116mm
No.10		40×7ml blood tube	Φ13×100mm
No.11		20×15ml	Φ17×121mm
No.12		48×2~7ml blood tube	Φ13×75~100mm
No.13		64×2~7ml blood tube	Φ13×75~100mm
No.14		4×250ml	Φ63×111mm
No.15		4×500ml	Φ80×137mm
No.16		16×50ml	Φ29×116mm
No.17		36×15ml	Φ17×121mm
No.18		76×2-7ml blood tube	Φ13×75~100mm
No.19		100×1.5ml	Φ11×42mm
No.20		148×5ml RIA tube	Φ13×75~100mm
No.21		96×2~7ml blood tube	Φ13×75~100mm
No.22		4×2×96hole×0.2ml	128×87×60mm
No.23		4×250ml	Φ60×164mm
No.24		4×750ml	Φ100×141mm
No.25		12×100ml	Φ38×114mm
No.26		20×50ml blood tube	Φ29×116mm
No.27		56×15ml	Φ17×121mm
No.28		96×2~7ml blood tube	Φ13×75~100mm
No.29		6×250ml	Φ63×111mm
No.30		6×50ml	Φ29×116mm
No.31		12×15ml	Φ17×121mm

# TDL-6 Benchtop Low Speed Refrigerated Centrifuge



## TECHNICAL PARAMETER

Model	TDL-6
Max Speed	6000rpm
Max RCF	5120×g
Max Capacity	4×250ml
Speed Accuracy	±10 r/min
Temp. Range	-20°C ~ 40°C
Temp. Accuracy	±1 °C
Noise	≤60dB (A)
Time Range	1s-99h59m59s
Power Supply	AC 220V 50HZ 15A
Dimension	640×560×390mm
Power	1.2KW
Weight	80Kg

## FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Setting parameters by directly inputting digits , accurate to ones place.
- ◆ Intelligent status display,real-time and real values.
- ◆ Imbalance detection:Three axis gyroscope to detect imbalance dynamically in the whole spin process.
- ◆ All steel housing, 316 stainless steel chamber.
- ◆ PID dynamic temperature control, fast and accurate.
- ◆ Good compressor unit, CFC-free,heating and cooling double-loop temperature control, ±1°C high temperature accuracy.
- ◆ Temperature range from -20°C to 40°C in 1°C steps.
- ◆ Stores up to 1000 programs, with password protection.
- ◆ Stores up to 1000 run histories, which is convenient for users to trace records.
- ◆ Can set password to the centrifuge to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Curve display:Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.

## ROTOR PARAMETER

No.	Capacity	Tube Size
No.1	Rotor: Swing Out Rotor Capacity: 4×100ml Max Speed: 5000r/min Max RCF: 4650×g Tube Size: Φ38×114mm	Rotor: Swing Out Rotor Capacity: 4×50ml Max Speed: 5000r/min Max RCF: 4650×g Tube Size: Φ30×116mm
No.2	Rotor: Swing Out Rotor Capacity: 32×15ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ17×121mm	Rotor: Swing Out Rotor Capacity: 8×50ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ30×116mm
No.3	Rotor: Swing Out Rotor Capacity: 4×250ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ63×111mm	Rotor: Swing Out Rotor Capacity: 8×100ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ38×114mm
No.4	Rotor: Microplate Rotor Capacity: 2×3×96hole×0.2ml Max Speed: 4000r/min Max RCF: 1970×g max: 128×87×60mm	Rotor: Swing Out Rotor Capacity: 8×100ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ38×114mm
No.5	Rotor: Swing Out Rotor Capacity: 48×2~7ml blood tube Max Speed: 4000r/min Max RCF: 3100×g Tube Size: Φ13×75~100mm	Rotor: Fixed Angle Rotor Capacity: 6×50ml Max Speed: 6000r/min Max RCF: 5120×g Tube Size: Φ29×116mm
No.6	Rotor: Swing Out Rotor Capacity: 4×50ml Max Speed: 5000r/min Max RCF: 4650×g Tube Size: Φ30×116mm	Rotor: Fixed Angle Rotor Capacity: 12×15ml Max Speed: 6000r/min Max RCF: 5120×g Tube Size: Φ17×121mm
No.7	Rotor: Swing Out Rotor Capacity: 4×250ml Max Speed: 4000r/min Max RCF: 2980×g Tube Size: Φ63×111mm	Rotor: Fixed Angle Rotor Capacity: 12×15ml Max Speed: 5500r/min Max RCF: 4300×g

# TDL-550 Benchtop Low Speed Refrigerated Centrifuge



## FEATURES

- ◆ Variable frequency motor;LCD touch screen.
- ◆ Automatic fault diagnosis and record.
- ◆ Multi-stage centrifugation is available.
- ◆ Curves display important parameters.
- ◆ 40 acceleration/deceleration stages.
- ◆ Can store frequently used programs.
- ◆ Can store 1000 run histories.
- ◆ All steel housing,stainless steel chamber.
- ◆ Electronic lid lock.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

## TECHNICAL PARAMETER

Model	TDL-550
Max Speed	5500rpm
Max RCF	4300×g
Max Capacity	4×50ml
Speed Accuracy	±10 r/min
Temp. Range	-20°C ~ 40°C
Temp. Accuracy	±1 °C
Noise	≤56dB (A)
Time Range	1s-99h59min59s
Power Supply	AC 220V 50HZ 5A
Dimension	430×500×315mm
Power	450W
Weight	43Kg

## ROTOR PARAMETER

No.	Capacity	Tube Size
No.1	Rotor: Swing Out Rotor Capacity: 4×50ml Max Speed: 5000r/min Max RCF: 3910×g Tube Size: Φ30×116mm	Rotor: Swing Out Rotor Capacity: 4×50ml Max Speed: 5000r/min Max RCF: 3910×g Tube Size: Φ30×116mm
No.2	Rotor: Swing Out Rotor Capacity: 16×10ml blood tube/16×2~7ml blood tube Max Speed: 4500r/min Max RCF: 3170×g	Rotor: Swing Out Rotor Capacity: 16×10ml blood tube/16×2~7ml blood tube Max Speed: 4500r/min Max RCF: 3170×g
No.3	Rotor: Fixed Angle Rotor Capacity: 12×15ml Max Speed: 5500r/min Max RCF: 4300×g	Rotor: Fixed Angle Rotor Capacity: 12×15ml Max Speed: 5500r/min Max RCF: 4300×g

# AUTOMATIC DECAPPING CENTRIFUGE

Shuke automatic cap decapping centrifuge, equipped with blood tube automatic cap removal design, solves the difficult problem of manual cap removal and sample remixing. It is an essential instrument for blood centrifugation in medical units.

Some models also have functions such as air exhaust, multi-stage filtration system, and ultraviolet sterilization, which can effectively avoid cross-infection of samples and reduce the risk of infection for operators.



## DD-5G Blood Tube Automatic Decapping Centrifuge (Biosafety type/Ordinary type)




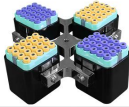


### TECHNICAL PARAMETER

Model	DD-5G
Max Speed	5000rpm
Max RCF	5200×g
Max Capacity	4×800ml
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Time Range	1s-99h59m59s
Motor	Variable frequency motor
Program	Can store 1000 programs
Dimension	680×620×840mm
Power Supply	AC 220V 50HZ 15A
Weight	145Kg
Power	1.1KW

### FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Setting parameters by directly inputting digits , accurate to ones place.
- ◆ Intelligent status display,real-time and real values.
- ◆ Imbalance detection:Three axis gyroscope to detect imbalance dynamically in the whole spin process.
- ◆ Stores up to 1000 programs, with password protection.
- ◆ Stores up to 1000 run histories, which is convenient for users to trace records.
- ◆ Can set password to the centrifuge to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvly slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ Temperature rise of chamber is below 8℃ even running 2 hours.
- ◆ With a unique primary, medium and high-efficiency filtration system, it can filter out the harmful gas generated after decapping in time, effectively avoiding cross-infection of samples and reducing the risk of infection for operators.(Biosafety type)
- ◆ With UV sterilization function, independent switch control.(Biosafety type)
- ◆ Compatible with different sizes blood tubes.

### ROTOR PARAMETER

Rotor	No.1 Swing Out Rotor	No.2 Decapping Rotor	No.3 Decapping Rotor	No.4 Decapping Rotor
Picture				
Capacity	4×250ml	80×2~7ml	120×2~7ml	140×2~7ml
Max Speed	5000r/min	4000r/min	4000r/min	4000r/min
Max RCF	5200×g	3400×g	3580×g	3580×g

## TD-5G Blood Tube Automatic Decapping Centrifuge



### TECHNICAL PARAMETER

Model	TD-5G
Max Speed	5000rpm
Max RCF	5200×g
Max Capacity	4×600ml
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Time Range	1min-9999min59s/Inching/Continuous
Motor	Variable frequency motor
Dimension	560×450×415mm
Power Supply	AC 220V 50HZ 10A
Weight	45Kg
Power	600W

### FEATURES

- ◆ Variable frequency motor, maintenance free, accurate speed control.
- ◆ LCD screen for displaying parameters.
- ◆ All steel housing, stainless steel chamber.
- ◆ Electronic lid lock.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Centrifugation and decapping are completed at the same time to avoid re-mixing after separation of samples.

### ROTOR PARAMETER

Rotor	No.1 Swing Out Rotor	No.2 Decapping Rotor	No.3 Decapping Rotor
Capacity	4×250ml	56×2~7ml	80×2~7ml
Max Speed	5000r/min	4000r/min	4000r/min
Max RCF	5200×g	3400×g	3400×g



56 Tubes



80 Tubes



## LD-5G Blood Tube Automatic Decapping Centrifuge (Refrigerated type)




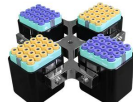


### TECHNICAL PARAMETER

Model	LD-5G
Max Speed	5000rpm
Max RCF	5200×g
Max Capacity	4×800ml
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Temp. Range	-20℃~40℃
Temp. Accuracy	±1℃
Time Range	1s-99H59m59s
Motor	Variable frequency motor
Dimension	680×620×840
Power Supply	AC 220V 50HZ 15A
Weight	165Kg
Power	1.8KW

### FEATURES

- ◆ LCD touch screen with simple & clear interface for viewing and setting parameters.
- ◆ Setting parameters by directly inputting digits, accurate to ones place.
- ◆ Intelligent status display, real-time and real values.
- ◆ Imbalance detection: Three axis gyroscope to detect imbalance dynamically in the whole spin process.
- ◆ Imported compressor unit, CFC-free, heating and cooling double-loop temperature control, ±1℃ high temperature accuracy.
- ◆ Temperature range from -20℃ to 40℃ in 1℃ steps.
- ◆ Stores up to 1000 programs, with password protection.
- ◆ Stores up to 1000 run histories, which is convenient for users to trace records.
- ◆ Can set password to the centrifuge to prevent misoperation.
- ◆ 5-stage centrifugation can be set to meet the requirements of diversified experiments.
- ◆ Two timekeeping modes: count up and count down.
- ◆ 40 acceleration and deceleration stages, speed downs curvily slowly from 500rpm to 0rpm to prevent samples shake.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ Compatible with different sizes blood tubes.

### ROTOR PARAMETER

Rotor	No.1 Swing Out Rotor	No.2 Decapping Rotor	No.3 Decapping Rotor	No.4 Decapping Rotor
Picture				
Capacity	4×250ml	80×2~7ml	120×2~7ml	140×2~7ml
Max Speed	5000r/min	4000r/min	4000r/min	4000r/min
Max RCF	5200×g	3400×g	3580×g	3580×g

## TD-550 For Blood Bank



### FEATURES

- ◆ Variable frequency motor, maintenance free
- ◆ LCD touch screen for viewing and setting parameters.
- ◆ Electronic lid lock, controlled by independent motor.
- ◆ 40 acceleration and deceleration stages; User can set and store 1000 programs.
- ◆ Automatic fault diagnosis and record.
- ◆ 5-stage centrifugation is available.
- ◆ Stores up to 1000 run histories, which can be exported via USB.
- ◆ Can set password to lock the machine to prevent misoperation.
- ◆ Steel housing and stainless steel chamber
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ User can modify parameters when rotor is running.

### TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Max Capacity	Speed Accuracy	Time Range
TD-550	5500rpm	4300×g	12x15ml	±10 r/min	1s-99h59m59s
	Noise	Power Supply(AC)	Dimension (mm)	Weight	Power
	≤60dB(A)	220V 50Hz 10A	450x340x330	25Kg	500W

## TD-4 CGF/PRF/PRP Centrifuge



### FEATURES

- ◆ Use variable frequency motor, energy saving, high speed accuracy.
- ◆ Corrosion-resistant and easy to clean stainless steel centrifuge chamber.
- ◆ Electronic lid lock, automatically open after centrifugation, hydraulic rod supports the door.
- ◆ 12x10ml metal rotor, super hard plastic tube sleeve, support 121° sterilization.
- ◆ Built-in dedicated centrifugation programs for plasma, PRP, APRF, iPRF, CGF.

Program	Name	Appliaction
1	PRP	For platelet-rich plasma
2	Serum Piasma	For conventional plasma
3	APRF	For platelet-rich fibrin
4	iPRF	For injection-type platelet-rich fibrin
5	CGF	For concentrated growth factors

### TECHNICAL PARAMETER

Model	Max Speed	Max RCF	Max Capacity	Speed Accuracy
TD-4	3500rpm	1640×g	12x10ml	±20 r/min
	Noise	Power Supply(AC)	Dimension (mm)	Weight
	≤55dB(A)	220V 50Hz 2A	430x340x330	17Kg

## DD-5Y Crude Oil Water Determination Centrifuge



The centrifuge is designed for determination of water and sediment in crude oil (centrifugal method). Water and sediments in crude oil are determined by centrifugal separation. It is an ideal separation equipment for water determination in oil-drilling industry and R&D institution. The machine uses variable frequency drive motor, microprocessor control and LCD display. It has the functions of heating and constant temperature. The operating parameters can be modified during operation.

### TECHNICAL PARAMETER

Model	DD-5Y
Max Speed	4000rpm
Max RCF	3400×g
Max Capacity	4×200ml
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Time Range	1min-99h59min/Inching
Temp. Range	Ambient temp. +10°C~70°C
Motor	Variable frequency motor
Dimension	600×700×900mm
Power Supply	AC 220V 50HZ 15A
Weight	160Kg
Power	1.1KW

### ROTOR PARAMETER

Rotor	Capacity	Max Speed	Max RCF
No.1 Swing Out Rotor	36×10ml	4000rpm	3400×g
No.2 Swing Out Rotor	4×100ml	3000rpm	2062×g
No.3 Swing Out Rotor	4×200ml	3000rpm	2000×g

## DD-RZ Milk Fat Centrifuge



### TECHNICAL PARAMETER

Model	DD-RZ
Max Speed	3300rpm
Max RCF	1920×g
Max Capacity	8×30ml (Fixed Angle Rotor)
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Time Range	1s-99h59min/Inching
Tube Size	Φ25×215mm
Motor	Variable frequency motor
Dimension	650×550×840mm
Power Supply	AC 220V 50HZ 15A
Weight	135Kg
Power	1.1KW

### FEATURES

- ◆ Microprocessor Control; Dual-screen display.
- ◆ Variable frequency motor, maintenance free.
- ◆ Steel housing, stainless steel chamber.
- ◆ Electronic lid lock.
- ◆ Automatic fault diagnosis.
- ◆ RCF can be set directly.
- ◆ Imported variable frequency controller, accurate speed control and durable.
- ◆ Heating type is optional.

### ROTOR PARAMETER

Rotor	Capacity	Speed Accuracy	Max RCF
No.1 Fixed Angle Rotor	8×30ml Gerber Tube	1400rpm	350×g
No.2 Swing Out Rotor	4×50ml Pasteurized Tube	3300rpm	1920×g



## TD-4B Blood Group/Serology Centrifuge(Test tube method) Cell Washing Centrifuge



### TECHNICAL PARAMETER

Model	TD-4B
Max Speed	4700rpm
Max RCF	2000×g
Max Capacity	12×7ml (SERO Rotor)
Speed Accuracy	±20 r/min
Noise	≤55dB (A)
Time Range	1s-99min
Dimension	375×300×360
Power Supply	220V 50HZ 5A
Weight	17Kg
Power	200W

### FEATURES

- ◆ Variable frequency motor,digital display.
- ◆ All steel body,stainless steel chamber.
- ◆ Electronic lid lock.
- ◆ Specifically for red blood and lymphocyte washing.
- ◆ Acceleration & deceleration only need 7 seconds.
- ◆ HLA and SERO rotor's centrifugal procedures have been standardized,so it's easy to use.

### ROTOR PARAMETER

Rotor	Program No.	RCF	Time	Application
Rotor for lymphocyte /HLA (12X1.5ml)	1	2000×g	180s	Lymphocyte segregation, Cell-culture Isolation
	2	1000×g	3s	Platelet separation(handling with thrombase)
	3	1000×g	60s	Lymphocyte washing
Rotor for red blood /SERO (12X7ml)	1	500×g	60s	blood grouping,observation of Hemagglutination reaction
	2	1000×g	15s	Cross-matching,Coombs test
	3	1000×g	60s	Wash blood cell,extraction of serum and plasma



Rotor for red blood /SERO (12X7ml)



Rotor for lymphocyte /HLA (12X1.5ml)

## TD-4K Blood Group/Serology Centrifuge(Card method) Gel Card Centrifuge



### TECHNICAL PARAMETER

Model	TD-4K
Max Speed	3840rpm
Max RCF	1790×g
Max Capacity	24/12 Gel Card Rotor
Noise	≤60dB (A)
Dimension	375×300×360
Power Supply	220V 50HZ 10A
Weight	23Kg
Power	100W

### FEATURES

- ◆ Variable frequency motor,microprocessor control.
- ◆ Electronic lid lock , protections like over-speed and automatic system check, etc.
- ◆ Low noise,without carbon powder pollution.
- ◆ Professional program design,it can run directly without setting parameters.
- ◆ Optional with 12 and 24 gel card rotor.

### PROGRAM

Time	Max Speed	Max RCF
0-2 minutes	900rpm	100×g
2-5 minutes	1500rpm	280×g

## TD-450 PRP Centrifuge



### TECHNICAL PARAMETER

Model	TD-450
Max Speed	4500rpm
Max RCF	3380×g
Max Capacity	6×50ml Syringe
Speed Accuracy	±10 r/min
Noise	≤60dB (A)
Time Range	1s-99h59m59s/Inching
Motor	Variable frequency motor
Dimension	550×430×350mm
Power Supply	AC 220V 50HZ 10A
Weight	40Kg
Power	500W

### FEATURES

- ◆ Digital display parameters.
- ◆ Program No.,Rotor No.,Speed and Time display together.
- ◆ All steel housing,304 stainless steel chamber
- ◆ 20 levels acceleration and deceleration.
- ◆ Timing model:hour/minute or minute/second.
- ◆ Electronic lid lock.
- ◆ RCF can be set directly without RPM/RCF conversion.
- ◆ Can change parameters under operation.
- ◆ Rotor can be sterilized under high temperature and high pressure.

### ROTOR PARAMETER

Rotor	Capacity	Max Speed	Max RCF
No.1 Swing Out Rotor	16×10ml Syringe	4000rpm	3000×g
No.2 Swing Out Rotor	8×20ml Syringe	4000rpm	3100×g
No.3 Swing Out Rotor	4×50mlPRP kit/Syringe	4000rpm	3380×g
No.4 Swing Out Rotor	24×10ml blood tube	4000rpm	2890×g
No.5 Swing Out Rotor	6×50ml Syringe	4500rpm	3020×g



Rotor: 24x7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 2890×g



Capacity: 4x50ml PRP kit  
Max Speed: 4000r/min  
Max RCF: 3380×g



Capacity: 4×50ml Syringe  
Max Speed: 4000r/min  
Max RCF: 3380×g



Capacity: 8×20ml Syringe  
Max Speed: 4000r/min  
Max RCF: 3100×g



Capacity: 16×10ml Syringe  
Max Speed: 4000r/min  
Max RCF: 3000×g

## YX-1850R Rock Core Centrifuge



Used for core analysis experiments under various oil reservoir conditions, used to measure core wettability, relative permeability, capillary pressure, relative saturation, void radius and other parameters.

### FEATURES

- ◆ Variable frequency motor,microprocessor control.
- ◆ LCD and digital display.
- ◆ Automatic rotor recognition to prevent overspeed.
- ◆ Automatically lock rotor,no need to use spanner.
- ◆ Can store 12 programs. 40 levels of acceleration and deceleration
- ◆ Automatic fault diagnosis.
- ◆ Imported compressor,CFC-free refrigerant. Double-loop control for refrigeration and heating, accurately control temperature.
- ◆ RCF can be set directly,no need to convert between RCF and RPM.
- ◆ Adopts imported famous brand variable frequency controller, which controls speed accurately and has long life.
- ◆ The operation parameters can be changed during operation.
- ◆ All steel body to ensure safety.

### TECHNICAL PARAMETER

Model	YX-1850R
Max Speed	18500rpm
Max Capillary Pressure	13.40MPa
Max Capacity	4×1000ml
Speed Accuracy	±10 r/min
Noise	≤65dB (A)
Time Range	1min-99h59min/Inching
Temp. Range	-20°C ~ 40°C
Temp. Accuracy	±1 °C
ACC/DEC	40 levels
Dimension	850×730×930
Power	220V 50HZ 32A
Weight	280Kg
Power	5KW

## L5KR Benchtop Low Speed Refrigerated Centrifuge (PRP/CGF/PRF Centrifuge)

This machine is specially used for the preparation and centrifugation of PRP, PPP, CGF, PRF, and is widely used in orthopedics, pain, rehabilitation, dentistry, beauty, body beauty, plastic surgery, and other fields. 10ml, 20ml, 50ml syringes, 10ml vacuum blood collection tubes and various PRP special kits can be used.

Built-in special centrifugation programs for plasma, PRP, APRF, iPRF, CGF and other items, one-key operation. All rotors and pendants are



### FEATURES

- ◆ LCD touch screen with simple&clear interface for viewing and setting parameters.
- ◆ Directly input digits for setting parameters, accurate to ones place.
- ◆ Intelligent status display, real-time display of centrifuge status.
- ◆ Three axis gyroscope to detect imbalance dynamically in the whole operation process.
- ◆ Large storage space,can store 1000 programs and 1000 usage records.
- ◆ Time display, year,month, day, hour, minute, second, easy to trace usage record.
- ◆ Two timing modes are available:Hours,minutes and minutes,seconds;Count and countdown are optional.
- ◆ 40 levels acceleration and deceleration, can set free stop.
- ◆ Speed curve,RCF curve and Temp. curve displayed on same screen.
- ◆ PID automatically and dynamically control temperature,more accurate and faster temperature control.
- ◆ Password lock function.Can set password to lock the centrifuge or parameters to prevent misoperation.
- ◆ RPM and RCF convert automatically and displayed on same screen.
- ◆ 22 protections such as door, overspeed, overtemperature, overpressure and overheating, sound and text prompt at the same time and display solutions.
- ◆ With electronic manual, never lost, easy to use.

### TECHNICAL PARAMETER

Model	Max Speed	Max Capacity	Speed Accuracy	Time Range	Power Supply	Noise
L5KR	5000rpm	6×50ml	±10 r/min	15-99h59m59S	AC 220V 50HZ 15A	≤60dB (A)
	Max RCF	Temp. Accuracy	Temp. Range	Dimension (mm)	Power	Weight
	3620×g	±1 °C	-20°C ~ 40°C	640×560×390	1.2KW	80Kg

### ROTOR PARAMETER

Rotor	Capacity	Max Speed	Max RCF
No.1 Swing Out Rotor	16×10ml Syringe	4000rpm	3000×g
No.2 Swing Out Rotor	8×20ml Syringe	4000rpm	3100×g
No.3 Swing Out Rotor	4×50mlPRP kit/Syringe	4000rpm	3380×g
No.4 Swing Out Rotor	24×10ml blood tube	4000rpm	2890×g
No.5 Swing Out Rotor	6×50ml Syringe	5000rpm	3620×g



Capacity: 16×10ml Syringe  
Max Speed: 4000r/min  
Max RCF: 3000×g



Capacity: 8×20ml Syringe  
Max Speed: 4000r/min  
Max RCF: 3100×g



Capacity: 4×50ml PRP kit  
Max Speed: 4000r/min  
Max RCF: 3380×g



Capacity: 4×50ml Syringe  
Max Speed: 4000r/min  
Max RCF: 3380×g



Rotor: 24×7ml blood tube  
Max Speed: 4000r/min  
Max RCF: 2890×g


**TG-12** Hematocrit Centrifuge

- 1.TG-12 is for testing hematocrit.
- 2.Brushless motor. Rapid acceleration and deceleration
- 3.Electronic lid lock.
- 4.Microcompture control. High quality steel body.
- 5.Digital display.

**TG-12 Data**

Max Speed	12000rpm
Max RCF	15800
Capacity	24pcs Capillary
Timer Range	0~99min59s
RCF and RPM Convert Funtion	Yes
Noise	≤ 55
Refrigerated	No
Min. Speed Change	10 Kinds
Speed Accuracy	± 20r/min
Temperature Accuracy	/
Power Supply	AC 220V/110V 50HZ/60HZ
Dimension (W x D x Hmm)	355×270×205mm
Weight (Kg)	13KG

**Matched Rotors for TG-12**

Rotor Photo	Max speed(rpm)	Max capacity	Max RCF (×g)
	12000	24 pieces vessel	15800

**TD-4M****Cyto centrifuge****Features:**

Variable frequency motor,microprocessor control,low noise.  
Electronic lid lock,protections like overspeed,self-checking.  
Can change parameters under operation.  
Can RCF directly without RPM/RCF conversion.  
Dual-drain to prevent seeper.

**Technical parameter:**

Max Speed: 4000rpm  
Max RCF: 2170Xg  
Max Capacity: 10pcs Slide Glass  
Motor: Variable frequency motor  
Noise: ≤60dB(A)  
Power Supply: AC 220V 50HZ 2A  
Dimension: 430\*340\*330mm  
Weight:23kg



No.1 Rotor 6\*9ml  
Max Speed:4000rpm  
Max RCF:2170Xg

**Rotor Parameter**

No.2 Rotor(For TCT)  
Max Speed:3000rpm  
Max RCF:1060Xg

**Consumables for TCT**