

## TD5-WS

# Intelligent Automatic Balance Low-Speed Centrifuge

### Introduction

TD5-WS intelligent low speed centrifuge are widely used in medical and Biological Field, Flealth Examination center, and laboratories etc.

### Features:

1. Stainless Steel Chamber, Full metal structure and microprocessor controlled
2. With electric door lid open and closed system, also equipped with emergency lid lock release in case of power off unexpected.
3. With the self-diagnostic and protection system for imbalance, over-speed, over-temperature. Greatly ensured the safe of users and machine.
4. 10 programs can be stored, quickly recall the last used program.
5. With air cooling fans to avoid high temperature with long time working.
6. Full colored touch panel, shows with RPM, RCF, Acc, Dec , Rotor No., etc.
7. Automatic rotor identification avoid over speed running.



### Parameters

<b>Model</b>	<b>TD5-WS</b>		
<b>Max Speed</b>	<b>5500r/min</b>		
<b>Speed Accuracy</b>	<b>±10rpm</b>		
<b>Max RCF</b>	<b>5220xg</b>		
<b>Timer Range</b>	<b>0~99min</b>		
<b>Rotor No.</b>	<b>Rotor Capacity</b>	<b>Speed (r/min)</b>	<b>RCF (xg)</b>
<b>No.1 Angle Rotor</b>	<b>12x10/15ml</b>	<b>5500</b>	<b>5220</b>
<b>No.2 Swing Rotor</b>	<b>4x100ml</b>	<b>4000</b>	<b>3020</b>
<b>No.3 Swing Rotor</b>	<b>8x50ml</b>	<b>4000</b>	<b>3020</b>
	<b>8x100ml</b>	<b>4000</b>	<b>3020</b>
<b>No.4 Swing Rotor</b>	<b>32x10/15ml</b>	<b>4000</b>	<b>3020</b>
<b>No.5 Swing Rotor</b>	<b>24x10/15ml</b>	<b>4000</b>	<b>3020</b>
<b>No.6 Swing Rotor</b>	<b>48x5ml</b>	<b>4000</b>	<b>3020</b>
<b>No.7 Swing Rotor</b>	<b>72x2/5ml</b>	<b>4000</b>	<b>3020</b>
<b>No.8 Swing Rotor</b>	<b>4x250ml</b>	<b>4000</b>	<b>3300</b>
<b>No.9 Swing Rotor</b>	<b>48x10/15ml</b>	<b>4000</b>	<b>3000</b>
<b>No.10 Micro plates</b>	<b>2x2x96holes</b>	<b>4000</b>	<b>2300</b>
<b>Timer Range</b>	<b>0~99mins</b>		
<b>Noise</b>	<b>≤55dB(A)</b>		
<b>Power Supply</b>	<b>AC220V &amp; 110V 50Hz 5A</b>		
<b>Dimension</b>	<b>600x460x340mm(LxWxH)</b>		
<b>Weight</b>	<b>39kg</b>		

# TD6-WS

## Intelligent Benchtop Large Capacity Low-Speed Centrifuge

### Introduction

TD6-WS is low speed Large Capacity centrifuge, Which is the idea machine for Biological, hospital clinics laboratories, Epidemic prevention stations and to separate samples of blood, plasma, Urine and so on.

### Features:

1. Stainless Steel Chamber, Full metal structure and microprocessor controlled
2. With electric door lid open and closed system, also equipped with emergency lid lock release in case of power off unexpected.
3. With the self-diagnostic and protection system for imbalance, over-speed, over-temperature.  
Greatly ensured the safe of users and machine.
4. 10 programs can be stored, quickly recall the last used program.
5. With air cooling fans to avoid high temperature with long time working.
6. Full colored touch panel, shows with RPM, RCF, Acc, Dec , Rotor No., etc.
7. Automatic rotor identification avoid over speed running.



### Parameters

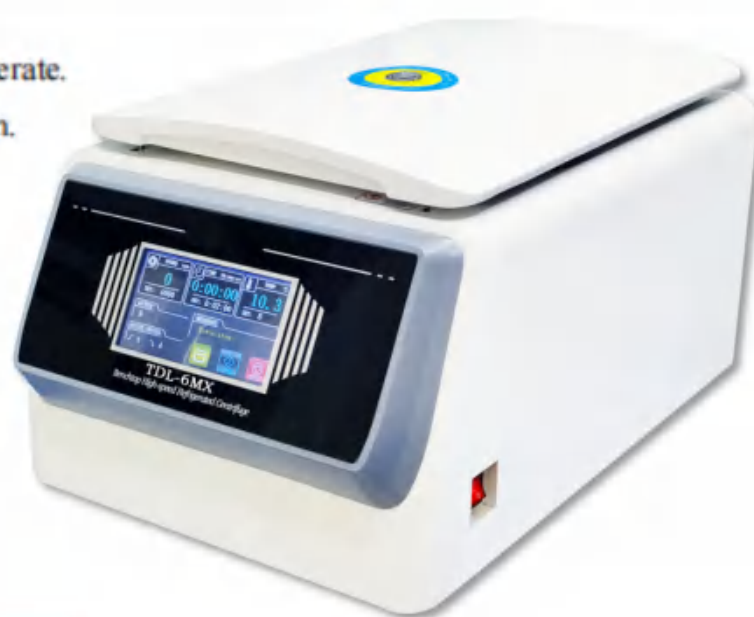
Model	TD6-WS		
Max Speed	6000r/min		
Speed Accuracy	±30rpm		
Max RCF	5600xg		
Timer Range	0~99min		
<b>Rotor No.</b>	<b>Rotor Capacity</b>	<b>Speed (r/min)</b>	<b>RCF (xg)</b>
No.1 Angle Rotor	12×10/15ml	6000	5600
No.2 Swing Rotor	24×5ml	4200	3120
No.3 Swing Rotor	108×5ml	4000	4200
No.4 Swing Rotor	16×10/15ml	5000	4100
No.5 Swing Rotor	8×50ml	4200	3120
	4×50ml		
No.6 Swing Rotor	8×100ml	4200	3120
No.7 Swing Rotor	4×500ml	4000	3600
No.8 Well Plates Rotor	2×2×96holes	4000	2300
Timer Range	0~99mins		
Noise	≤65dB(A)		
Power Supply	AC220V & 110V 50Hz 5A		
Dimension	605×505×420mm(LxWxH)		
Weight	52kg		

# TDL-6MX

## Intelligent Benchtop Low Speed Refrigerated Centrifuge

### Features:










1. Microprocessor control, speed control by frequency-conversion and CFC compressor. Maintenance free Frequency-conversion motor without carbon dust pollution.
2. Advanced door lid control system can both electric control open and close door lid, also equipped with emergency lid lock release to avoid power off unexpected.
3. 10 programs can be stored, quickly recall the last used program.
4. Automatic rotor identification to avoid over speed running by mistake operate.
5. Easy operation, 7 inches LCD touch panel, shows all parameters in screen.
6. With Emergency lid lock release, in case of power off.
7. Error minder for wrong operate or problem.



### Parameters

Model	TDL-6MX	Speed Accuracy	±50r/min
Max Speed	6000r/min	Timer Range	0~99min
Max RCF	5600xg	Temp Range	-20°C~ +40°C
Display	LCD Touch display	Max Capacity	4x250ml
Noise	≤60dB(A)	Power Supply	AC220v&110V 50Hz 18A
Weight	85kg	Dimension	720x500x420mm

### Rotor

 No.1 AR	Max Speed:6000r/min Capacity:12x15/10ml Max RCF:5600xg	 No.2 SR	Max Speed:4000r/min Capacity:24x10/15ml Max RCF:3020xg
 No.3 SR	Max Speed:4000r/min Capacity:32x10/15ml Max RCF:3020xg	 No.4 SR	Max Speed:4000r/min Capacity:4/8x50ml Max RCF:3020xg
 No.5 SR	Max Speed:4000r/min Capacity:72x2/5ml Max RCF:3020xg	 No.6 SR	Max Speed:4000r/min Capacity:48x5ml Max RCF:3000xg
 No.7 SR	Max Speed:4000r/min Capacity:4/8x100ml Max RCF:3020xg	 No.8 SR	Max Speed:4000r/min Capacity:4x250ml Max RCF:3300xg
 No.9 SR	Max Speed:4000r/min Capacity:48x10/15ml Max RCF:3020xg	 No.10 MTP	Max Speed:3000r/min Capacity:2x2x96holes Max RCF:2300xg



## TGL-18X

# Intelligent Micro High Speed Refrigerated Centrifuge

### Features:

1. Stainless steel chamber, compact structure, can use 8 different capacity rotors.
2. With Electric control for close and open door lid.. equipped with emergency lid lock release system in case of power off.
3. Imbalance sensor, Over speed and over temperature cut off
4. Easy operation, LCD touch screen, micro compressor control.
5. Smart size and with various rotors for option.



### Parameters

Model	TGL-18X	Speed Accuracy	±10r/min
Max Speed	18500r/min	Timer Range	0~99min
Max RCF	19920xg	Motor	Convert motor
Display	LCD touch display	Noise	≤55dB(A)
Max Capacity	36 x1.5/2ml	Power Supply	AC220V50Hz 10A
Temperature Range	-10°C~+30°C	Dimension	560x370x325mm(L*W*H)
Temperature Accuracy	±1°C	Weight	40kg

### Rotor

	No.1	Max Speed:18500r/min Capacity:12×0.5ml AR Max RCF:19920xg		No.2	Max Speed:16000r/min Capacity:12×1.5/2.2ml AR Max RCF:17800xg
	No.3	Max Speed:14000r/min Capacity:24×1.5/2.2ml AR Max RCF:18860xg		No.4	Max Speed:15000r/min Capacity:3/2×8×0.2ml PCR tube Max RCF:14750xg
	No.5	Max Speed:11000r/min Capacity:36×1.5/2.2ml AR Max RCF:10800xg		No.6	Max Speed:16000r/min Capacity:18×0.5ml AR Max RCF:15450xg
	No.7	Max Speed:12000r/min Capacity:12/8×5ml AR Max RCF:10560xg		No.8	Max Speed:12000r/min Capacity:48×0.5ml Max RCF:11060xg

# TGD

## Intelligent High & Low Speed Refrigerated Centrifuge

### Features:

1. Microprocessor control, speed control by frequency-conversion and CEC compressor. Maintenance free Frequency-conversion motor without carbon dust pollution.
2. Advanced door lid control system can both electric control open and close door lid, also equipped with emergency lid lock release to avoid power off unexpected.
3. 10 programs can be stored, quickly recall the last used program.
4. Automatic rotor identification to avoid over speed running by mistake operate.
5. Easy operation, 7 inches LCD touch panel, shows all parameters in screen.
6. With Emergency lid lock release, in case of power off.
7. Error minder for wrong operate or problem.



### Parameters

Model	TGD-16MC	TGD-18MC	TGD-20MC	Speed Accuracy	±10r/min
Max Speed	16500r/min	18500r/min	20500r/min	Timer Range	1s~99h59mins 59s
Max RCF	21800xg	23500xg	28200xg	Temp Range	-20°C~+40°C
Display	LCD Touch display			Max Capacity	4x250ml
Noise	≤60dB(A)			Power Supply	AC220v&110V 50Hz 10A
Weight	85kg			Dimension	720x500x420mm

### Rotor

 No.1 AR	Max Speed:20500r/min Capacity:12x1.5/2ml Max RCF:28200xg	 No.2 AR	Max Speed:16000r/min Capacity:8x5ml Max RCF:3020xg
 No.3 AR	Max Speed:14000r/min Capacity:12x10ml Max RCF:23120xg	 No.4 AR	Max Speed:15000r/min Capacity:24x1.5/2ml Max RCF:21800xg
 No.5 SR	Max Speed:14000r/min Capacity:48x1.5ml Max RCF:17600xg	 No.6 AR	Max Speed:14000r/min Capacity:36x1.5/2ml Max RCF:18200xg
 No.7 AR	Max Speed:13000r/min Capacity:6x50ml Max RCF:16760xg	 No.8 AR	Max Speed:10000r/min Capacity:4x100ml Max RCF:9800xg
 No.9 SR	Max Speed:4000r/min Capacity:4x250ml Max RCF:3300xg	 No.10 AR	Max Speed:8000r/min Capacity:6x100ml Max RCF:9800xg
 No.11 AR	Max Speed:13000r/min Capacity:6x30ml Max RCF:17000xg	 No.12 AR	Max Speed:12000r/min Capacity:12x15ml Max RCF:15100xg



# Intelligent High & Low Speed Refrigerated Centrifuge TGD

## Features

1. Microprocessor control, speed control by frequency-conversion and CFC compressor. Maintenance free Frequency-conversion motor without carbon dust pollution.
2. Advanced door lid control system can both electric control open and close door lid, also equipped with emergency lid lock release to avoid power off unexpected.
3. 10 programs can be stored, quickly recall the last used program.
4. Automatic rotor identification to avoid over speed running by mistake operate.
5. Easy operation, 7 inches LCD touch panel, shows all parameters in screen.
6. With Emergency lid lock release, in case of power off.
7. Error minder for wrong operate or problem.



## Specifications

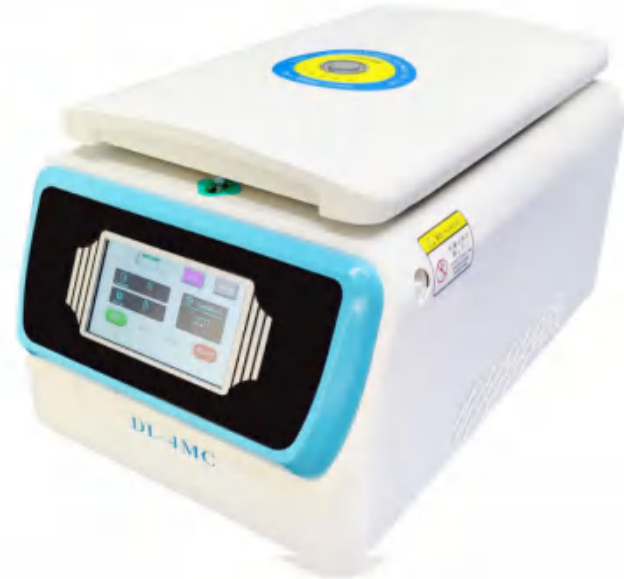
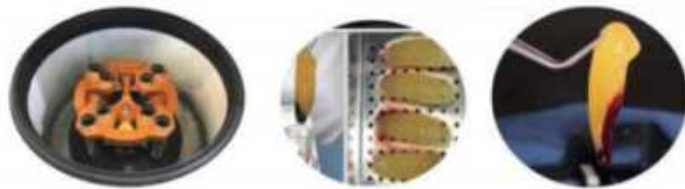
<b>Model</b>	<b>TGD-22MC</b>	<b>Speed Accuracy</b>	<b>±10r/min</b>
<b>Max Speed</b>	<b>22000r/min</b>	<b>Timer Range</b>	<b>1s~99h59mins 59s</b>
<b>Max RCF</b>	<b>34700xg</b>	<b>Temp Range</b>	<b>- 20°C~ +40°C</b>
<b>Display</b>	<b>LCD Touch display</b>	<b>Max Capacity</b>	<b>4x7500ml</b>
<b>Noise</b>	<b>≤60dB(A)</b>	<b>Power Supply</b>	<b>AC220v&amp;110V 50Hz 10A</b>
<b>Weight</b>	<b>100kg</b>	<b>Dimension</b>	<b>656x835x45mm</b>

<b>No.1</b>		<b>Max Speed:22000r/min</b> <b>Capacity:12x1.5/2.2ml AR</b> <b>Max RCF:34700xg</b>	<b>No.2</b>		<b>Max Speed:16500r/min</b> <b>Capacity:8/10/12x5ml</b> <b>Max RCF:18360xg</b>
<b>No.3</b>		<b>Max Speed:12000r/min</b> <b>Capacity:12x10ml AR</b> <b>Max RCF:14800xg</b>	<b>No.4</b>		<b>Max Speed:13500r/min</b> <b>Capacity:24x1.5/2.2ml AR</b> <b>Max RCF:17000xg</b>
<b>No.5</b>		<b>Max Speed:13500r/min</b> <b>Capacity:18x0.5ml AR</b> <b>Max RCF:17000xg</b>	<b>No.6</b>		<b>Max Speed:14000r/min</b> <b>Capacity:36x1.5/2.2ml AR</b> <b>Max RCF:18200xg</b>
<b>No.7</b>		<b>Max Speed:13000r/min</b> <b>Capacity:6x50ml AR</b> <b>Max RCF:17940xg</b>	<b>No.8</b>		<b>Max Speed:10000r/min</b> <b>Capacity:4x100ml AR</b> <b>Max RCF:9800xg</b>
<b>No.9</b>		<b>Max Speed:4000r/min</b> <b>Capacity:2x2x48 holes</b> <b>Max RCF:1760xg</b>	<b>No.10</b>		<b>Max Speed:15000r/min</b> <b>Capacity:6x30ml AR</b> <b>Max RCF:23120xg</b>
<b>No.11</b>		<b>Max Speed:13000r/min</b> <b>Capacity:6x15ml AR</b> <b>Max RCF:15100xg</b>	<b>No.12</b>		<b>Max Speed:5000r/min</b> <b>Capacity:12x15/10ml</b> <b>Max RCF:4390xg</b>
<b>No.13</b>		<b>Max Speed:4000r/min</b> <b>Capacity:48x10/15/7/5ml SR</b> <b>Max RCF:3020xg</b>	<b>No.14</b>		<b>Max Speed:4000r/min</b> <b>Capacity:4x250ml SR</b> <b>Max RCF:3020xg</b>
<b>No.15</b>		<b>Max Speed:4000r/min</b> <b>Capacity:6x500ml SR</b> <b>Max RCF:4390xg</b>	<b>No.16</b>		<b>Max Speed:4000r/min</b> <b>Capacity:4x500/750ml SR</b> <b>Max RCF:3600xg</b>

# DL-4MC CGF Variable Speed Centrifuge

## Introduction

CGF Variable Speed Centrifuge for one-time extraction of CGF.



## Features:

1. Equipped with compressor system, provide precise temperature and humidity control, setting temperatures within 4° C to 15 ° C.
2. With color touch panel, both electronic and mechanical lock system for safe operation.
3. Program variable speed CGF program easy operate.
4. Equipped with UV disinfection system in chamber, closed the function while door lid open to avoid any injury of operator.
5. The door cover is equipped with a unique ultraviolet lamp irradiation reflective device to ensure the safety of sterilization in the centrifuge chamber .
6. Driven by brushless DC motor, low noise during operation.
7. Full automatic speed control with 4 times continuously in speed of acceleration and deceleration

## Parameters

<b>Model</b>	<b>DL-4MC</b>			
<b>NO.1 Swing Rotor</b>	<b>8*10ml</b>	<b>4000r/min</b>	<b>3250xg</b>	
<b>Program</b>	<b>No.1</b>	<b>No.1</b>	<b>No.3</b>	<b>No.4</b>
	<b>PRP</b>	<b>PRP</b>	<b>CGF</b>	<b>adjustable</b>
<b>Motor</b>	<b>Microprocessor &amp; Brushless DC Motor</b>			
<b>Temperature Range</b>	<b>-20°C~+40°C</b>			
<b>Timer Range</b>	<b>0~99min</b>			
<b>Noise</b>	<b>≤50dB(A)</b>			
<b>Power Supply</b>	<b>AC220V&amp;110V 50Hz 2A</b>			
<b>Dimension</b>	<b>540*340*312mm(L*W*H)</b>			
<b>Weight</b>	<b>40kg</b>			

## CGF Introduction

CGF (Concentrated Growth Factor) is extracted from autologous blood by our specialized variable speed centrifuge DL-4MC. The concentration of growth factor is four times higher than that of normal blood active substances and it contains CD34 positive cells and white blood cells with high activity. CD34 positive cells are important Cells for promoting the reconstruction of micro-circulatory system and collagen regeneration. In the mesoderm, filling and wound repair, micro-capillary and micro-lymphatic system can be quickly reconstructed in the treatment.

## DL-6MC

# Intelligent Large Capacity Refrigerated Centrifuge

### Features:

1. With the self-diagnostic and protection system for imbalance, over-speed, over-temperature. Greatly ensured the safe of users and machine.
2. Electric control lid locks, can control both close and open door lid, with backup power to avoid power off unexpected, Backup power automatically recharges when machine powered on.
3. With large 7 Inches color panel, can operate with gloves.
4. With wheels easy to short distance move, and wheels can be fixed.
5. Automatic Rotor Identification to avoid over-high speed running of rotor.
6. Data can be stored (Option function).



### Parameters

Model	DL-6MC	Max Speed	6000r/min
Max RCF	6680xg	Max Capacity	6×1000ml
Speed Accuracy	±10r/min	Timer Range	0-99h 59 min
Temperature Range	-20~+40°C	control&drive	microprocessor control/direct drive
Acc/dec Rate	0-9(Grade)	Program Store	35
Motor Power	3.8KW	Refrigerator Power	2.2KW
Noise	≤60dB(A)	Power Supply	AC220V/380V 50Hz 35A
Weight(Without Rotor)	260kg	Dimensions	730×840×1200mm(L×W×H)
Refrigeration System	Big Brand High-performance Compressor CFC-free Refrigeration System		
Rotor	No.1 AR 6*500ml (6000rpm 6680xg) No.2 SR 6*1000ml Round Cup (4200rom 5600xg) No.3 SR 6*1000ml Oval Cup (4000rom 5600xg)		



### **CGF application**

1. Move skin wrinkles, Improve skin dryness, relaxation, dullness, spots, pore size and other phenomena.
2. Skin anti-aging.
3. Promote tissue regeneration, Repair of wounds and scars.
4. Reconstruction of skin barrier and repair of tissue.
5. Lipid transplantation partners to improve the survival rate of fat transplantation.
6. Scalp management.
7. Treatment of mesodermal and osteoarthritis.

### **CGF Therapy advantages**

1. CGF from autologous blood, no rejection reaction.
2. No Chemical additives, its safer.
3. With Various concentrated growth factor, good effect.
4. The CD34 positive white cells promoting micro-circulatory system and collagen regeneration.
5. Multiple clinical uses - liquid/gelatinous without embolism risk.

### **Compare of 3 generation of blood active substance PRP PRF CGF**

<b>Name</b>	<b>Separate Results</b>	<b>Condition</b>	<b>Construction</b>	<b>Molecular Structure</b>
<b>PRP</b> (Platelet Rich Plasma)	<b>PPP+PRP+RBC</b>	<b>Anticoagulant</b>	<b>Liquid</b>	<b>Compact Tetramolecular structure</b>
<b>PRF</b> (Platelet Rich Fibrin)	<b>PPP+PRF+RBC</b>	<b>No</b>	<b>Gel Membrane</b>	<b>3-dimension loose structure</b>
<b>CGF</b> (Concentrated Growth Factor)	<b>PPP+CFG+PRP+ CD34++RBC</b>	<b>No</b>	<b>Liquid Gel Membrane Half-Gel</b>	<b>3-dimension looser structure</b>

## DL-7MC

# Inelligent Type Large Capacity Refrigerated Centrifuge

### Features:

1. With the self-diagnostic and protection system for imbalance, over-speed, over-temperature. Greatly ensured the safe of users and machine.
2. Electric control lid locks, can control both close and open door lid, with backup power to avoid power off unexpected, Backup power automatically recharges when machine powered on.
3. With large 7 Inches color panel, can operate with gloves.
4. With wheels easy to short distance move, and wheels can be fixed.
5. Automatic Rotor Identification to avoid over-high speed running of rotor.
6. Data can be stored (Option function).



### Parameters

Model	DL-7MC	Max Speed	8000r/min
Max RCF	11620xg	Max Capacity	6×1000ml
Speed Accuracy	±10r/min	Timer Range	0-99h 59 min
Temperature Range	-20~+40°C	control&drive	microprocessor control/direct drive
Acc/dec Rate	0-9(Grade)	Program Store	99
Motor Power	4KW	Refrigerator Power	2.2KW
Noise	≤60dB(A)	Power Supply	AC220V/380V 50Hz 35A
Weight(Without Rotor)	280kg	Dimensions	730×840×100mm(L×W×H)
Refrigeration System	Big Brand High-performance Compressor CFC-free Refrigeration System		
Rotor	No.1 AR 4*1000ml (8000rpm 11620xg) No.2 AR 6*1000ml (7000rpm 11500xg)		

## DL8M-12L

# Intelligent Large Capacity Refrigerated Centrifuge





DL8M-12L Compact refrigerated floor standing centrifuge is specially designed for universal use in blood banks, clinical laboratories, serology investigations, molecular biology, serum separation, pharmaceutical applications, where repeatability, precision and reliability of speed, time, temperature, acceleration and deceleration are significant factors in obtaining perfect separation of distinct blood fractions.

### Features:

1. 7 Inches color touch Panel. both shows the set parameters and operation parameters. An easy-going operator interface with a standard English operating software, user can operate freely.
2. Automatic open and close door lid system, with backup power in case of emergency power off, back up power automatically recharges when Machine powered on.
3. All stainless steel internal and external structure, corrosion resistance and durable.
4. Use the big Brand Compressor system and R404a Environmentally friendly refrigerant, with the accurate temperature control system.
5. Can Store 99 programs. , Users can set 9 programs for daily operation use.
6. With the self-diagnostic system and protection for imbalance, over-speed and over-temperature. Both automatic electronic lock and mechanical lock to ensure safety.
7. Equipped with USB port, program can be upgraded at any time, and download running data or error record (optional function).
8. Swing rotor cover can be opened and fixed on door lid when machine open. And closed properly when door lid close.

### Parameters

<b>Model</b>	<b>DL8M-12L</b>	<b>Max Speed</b>	<b>8000r/min</b>
<b>Max RCF</b>	<b>15200xg</b>	<b>Max Capacity</b>	<b>6x2400ml</b>
<b>Speed Accuracy</b>	<b>±10r/min</b>	<b>Timer Range</b>	<b>0-99h 59 min</b>
<b>Temperature Range</b>	<b>-20~+40°C</b>	<b>control&amp;drive</b>	<b>microprocessor control</b>
<b>Acc/dec Rate</b>	<b>0-9(Grade)</b>	<b>Program Store</b>	<b>99</b>
<b>Motor Power</b>	<b>4KW</b>	<b>Refrigerator Power</b>	<b>2.2KW</b>
<b>Noise</b>	<b>≤60dB(A)</b>	<b>Power Supply</b>	<b>AC220V/380V 50Hz 35A</b>
<b>Weight</b>	<b>500kg</b>	<b>Dimensions</b>	<b>960×880×100mm(L×W×H)</b>
<b>Refrigeration System</b>	<b>High-performance Compressor CFC-free Refrigeration System</b>		

Rotor			
 No.1 Swing rotor	<b>Max Speed:4000r/min</b> <b>Capacity:2x6x1000ml</b> <b>12*400-500ml blood bag</b> <b>Max RCF:5800xg</b>	 No.2 Swing rotor	<b>Max Speed:4200r/min</b> <b>Capacity:6x2400ml</b> <b>Max RCF:5900xg</b>
 No.3 Swing rotor	<b>Max Speed:4000r/min</b> <b>Capacity:24x200ml</b> <b>Max RCF:5900xg</b>	 No.4 Angle rotor	<b>Max Speed:8000r/min</b> <b>Capacity:6x1000ml</b> <b>Max RCF:15200xg</b>





## GL-21/22MC

# Intelligent Floortype High Speed Refrigerated Centrifuge

### Features:

#### 1. Superior performance

Microcomputer controlled, AC frequency variable motor drive, and longer lifetime. Lower noise and less vibration, equipped with multiple types of rotors for users to choose. Efficiency has been greatly improved.

#### 2. Easy operation

Equipped with 7 inches touch Panel ,shows parameters clearly, and electric control for close and open door lid. Also with backup power to avoid power off unexpected, and backup power charge automatically.

#### 3. Safe and reliable performance

With protection from over speed, over temperature, imbalance and protection of automatic electronic or mechanical lock, to ensure the safety of operators and machines.

With automatically rotor identification function to avoid over-speed running by mistake operate.

#### 4. Data down load/ program edit (option)

All running and set data can be download and can program edit by USB port.



### Parameters

Model	GL-21MC	GL-22MC
Max Speed	21000r/min	22000r/min
Max RCF	52300xg	53000xg
Max Capacity	3000ml	
Speed Accuracy	±20r/min	
Temp Range	-20°C~+40°C	
Temp Accuracy	±1°C	
The shortest Ace time	lmin30s(0~21000 r/min)	lmin35s(0~22000 r/min)
The shortest Dec time	lmin40s(21000 r/min~0)	lmin45s(22000 r/min~0)
Refrigeration system	High-performance Compressor CFC-free Refrigeration System	
Timer Range	0~23h 59min	
Motor	Microprocessor control, Frequency conversion motor	
Noise	≤60dB(A)	
Power Supply	AC220V 50-60Hz 30A	
Dimension	710×820×1200mm(L×W×H)	
Net Weight	260kg	

## TM108R /TM162R/ TM120R

### Intelligent Full Automatic Uncap Centrifuge

#### Features:

1. Stable running ,Greatly improved the work efficiency and avoided the re-mix of blood after separation.
2. Completely eradicated bacteria infection and It is suitable for every capacity of evacuated blood tube.
3. Microprocessor control and AC conversion motor, with high speed accuracy and 100% uncap rate.
4. 7 Inches Touch LCD display, showing RPM, RCF, Speed, Running Time, Errors etc.
5. Patented bucket Layered design, Can use both 2ml 5ml 7ml vacuum tubes at one rotor and avoid caps dropping during running.
6. Automatic rotor identification, to avoid over speed by mistake operate.
7. Advanced door lid control can electric control for opening and close door lid, also with emergency lid lock release to avoid power off unexpected.



With Bio-safe cover rotor

#### Parameters

Model	TM108R	TM120R	TM162R
Temperature Range	-20°C~+40°C		
Rotor No.	Capacity	Max Speed	RCF
NO1 Angle Roto	12×10/15ml	5000r/min	5200xg
NO.2 Swing Rotor	108×2/5ml	4000r/min	3600xg
NO.3Swing Rotor	120×2/5ml	4000r/min	3680xg
NO.4 Swing Rotor	162×2/5ml	4000r/min	3850xg
Motor	Microprocessor Control, AC Frequency Motor		
Timer Range	0~99min		
Noise	≤60dB(A)		
Power Supply	AC220V & 110V 50-60Hz 10A		
Dimension	790×610×820mm(LxWxH)		
Weight	190KG		

## Rotor

 No.1 Angle Rotor	Max Speed:22000r/min Max Capacity:12×1.5ml Max RCF:53000xg	 No.2 Angle Rotor	Capacity:16/12×10ml Max Speed :21000r/min Max RCF:52300xg
 No.3 Angle Rotor	Capacity:6×50ml Max Speed :20000r/min Max RCF:43000xg	 No.4 Angle Rotor	Capacity:6×70/80ml Max Speed :15000r/min Max RCF:25700xg
 No.5 Angle Rotor	Capacity:4×250/300ml Max Speed :12000r/min Max RCF:22470xg	 No.6 Angle Rotor	Capacity:6×250ml Max Speed :12000r/min Max RCF:22470xg
 No.7 Angle Rotor	Capacity:8×100ml Max Speed :14000r/min Max RCF:26952xg	 No.8 Angle Rotor	Capacity:6×300ml Max Speed :12000r/min Max RCF:22470xg
 No.9 Angle Rotor	Capacity:6×500ml Max Speed :10000r/min Max RCF:17800xg	 No.10 Angle Rotor	Capacity:8×50ml Max Speed :18000r/min Max RCF:37600xg
 No.1 Swing Rotor	Capacity:4×750/500ml Max Speed :4000r/min Max RCF:5470xg	 No.2 Swing Rotor	Capacity:4×300/250ml Max Speed :4000r/min Max RCF:4210xg
 No.3 Microplate Rotor	Capacity:2×2×96holes Max Speed :4000r/min Max RCF:2300xg		

## Continuous Flow Rotor

NO.	Max Speed	Max RCF	Full capacity	Standard Flow
1	14000r/min	21500xg	1000ml	200-600ml/min
2	8000r.min	9500xg	3000ml	200-800ml/min
3	16000r/min	28100xg	1000ml	200-600ml/min
4	10000r/min	14800xg	3000ml	200-800ml/min