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湖南可成仪器设备有限公司

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High Quality Centrifuge

Intellectual Manufacturing in China

High Performance Series



Hunan KeCheng Instrument and Equipment Co., Ltd is located in Hunan, which is the largest centrifuge production base in China. The company is composed of experienced industry expert consultants and a number of industry elites. It is an excellent manufacturer integrating R&D, manufacturing, and sales of a full range of centrifuges and laboratory equipment with annual output over tens of thousands of centrifuges ability.

With advanced production technology and process, our main product – High speed series, low speed refrigerated series and standing type large capacity series has won the faith for a great number of customers. "KeCheng" centrifuge develops and absorbs the advantages of its domestic and foreign counterparts through independent innovation. The research of high-speed refrigerated centrifuge equipped with colorful LED display has good compatibility, high-definition display, high temperature control precision, which achieve a very good market reputation.

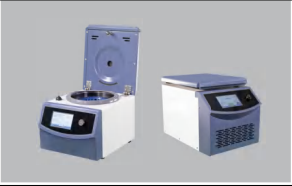


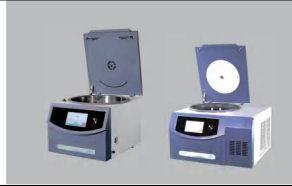




For every link of production, each corner that can be seen or invisible, "KeCheng" always adhere to an ingenuity, with the spirits of concentration, attention and expertise, to ensure the quality of product zero defects, all the models is qualified by "CE certification", ISO9001, ISO13485.



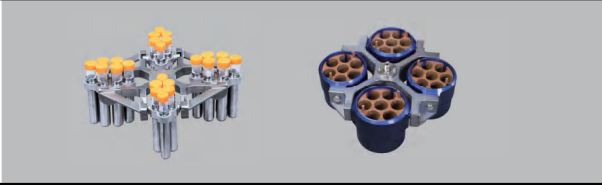



On the way of developing and innovating Chinese centrifuges, customer satisfaction is our ultimate target. In order to achieve this goal, we will improve our products continuously, take our responsibility, ensure safety with high quality and seek excellence. "KeCheng" will keep research and develop more new products, produce high performance products and create more independent intellectual property rights. Set a good example, let the world fall in love with Chinese instruments, and made by "KeCheng".

Corporate Culture: Responsibility、 Safety、 Quality and Excellence



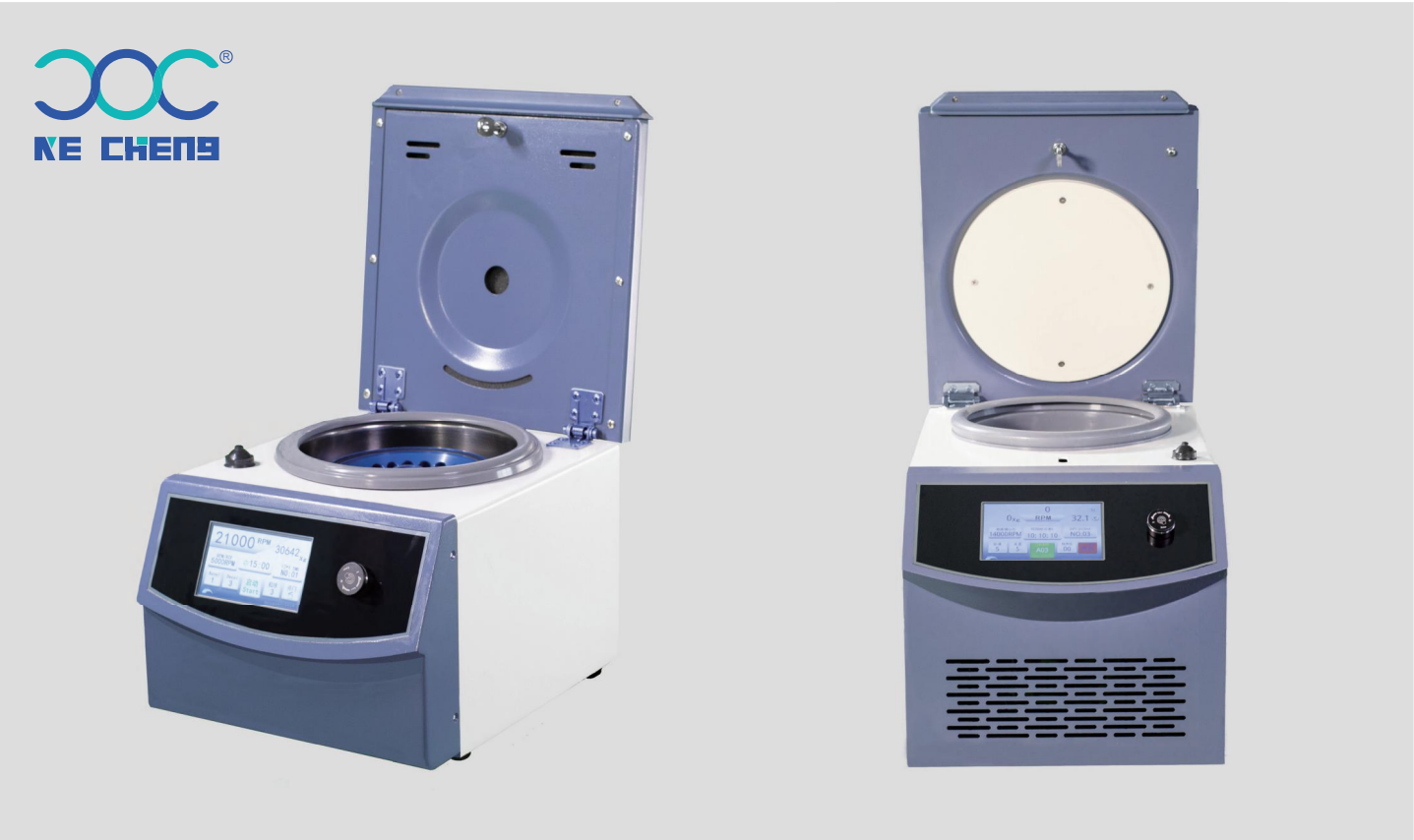
Centrifuge catalogue Guide

Number of pages	1-4	5-8	9-12	13-16
Centrifuge				
Model	1-16 / 1-16R	3-18 / 3-18R	3-20 / 3-20R	4-5 / 4-5R
category	Table High Speed Centrifuge	Table High Speed Centrifuge	Table High Speed Centrifuge	Table Low Speed Centrifuge
Max RPM(RPM)	16500/16500	18500/18500	20000/20000	6500/6500
Max RCF(×g)	20625/20625	23110/23110	30185/30185	5190/5190
Max Speed	3	10	9	10
Temperature range	--/-20~40℃	--/-20~40℃	--/-20~40℃	--/-20~40℃
Max Capacity	 12×5ml	 4×100ml	 4×250ml	 4×750ml

Number of pages	17-20	21-24	25-27
			
Model	4-20 / 4-20R	4-21R	adapter、Square hanging basket、Swing out Rotor with Multi-Pipe Frame
category	Table High Speed Centrifuge	Floor High Speed Centrifuge	
Max RPM(RPM)	21000/23000	23000	
Max RCF(×g)	29780/35720	35720	
Max Speed	11	11	
Temperature range	--/-20~40℃	-20~40℃	
Max Capacity	 4×750ml	 4×750ml	 4×500ml

R = Refrigerated Centrifuge.

Note: Use the appropriate adapter to meet the maximum capacity. Check the load and size of the rotor or adapter.



1-16/1-16R Table High Speed Centrifuge

Scope of application:

The 1-16/1-16R machine is widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugation in hospitals, research institutes and universities at all levels.

Model	1-16	Technical parameters
Max RPM	16500rpm	
Max RCF	20625×g	
Max Capacity	12×5ml	
Timer	1s~99h59min59s	
Revolutions/min	±10r/min	
Voltage	AC 220±22V 50Hz 15A	
Power	500W	
Noise Level	62dB (A)	
Chamber Diameter	Φ200mm	
Dimensions	335×270×245mm	
Packging Dimensions	412×347×332mm	
Net Weight	15Kg	

Model	1-16R	Technical parameters
		(Low temperature or Refrigerated)
Max RPM	16500rpm	
Max RCF	20625×g	
Max Capacity	12×5ml	
Timer	1s~99h59min59s	
Revolutions/min	±10r/min	
Temp Range	-20℃~40℃	
Temp Accuracy	±1.0℃	
Voltage	AC 220±22V 50Hz 15A	
Power	800W	
Noise Level	58dB (A)	
Chamber Diameter	Φ200mm	
Dimensions	470×295×330mm	
Packging Dimensions	547×437×417mm	
Net Weight	36Kg	

Product characteristics:

- ◎ Electronic door lock, all steel door cover protection, superior to peer standards.
- ◎ External heat dissipation design, efficient heat dissipation of the internal circuit of the main engine, the temperature rise in the cavity is better than the industry standard, to ensure the safety of the sample.
- ◎ High quality hydraulic rod, imported damper seal, hydraulic damper does not decay for ten years.
- ◎ Food-grade integrated silica gel sealing ring, life-long service, more sealable.
- ◎ The automatic identification system of magnetic rotor automatically matches the corresponding rotor program, prevents the rotor from overspeeding and ensures centrifugal safety.
- ◎ Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- ◎ It has many protective functions, such as door cover, overspeed, over-temperature, over-current, over-pressure, over-heat, etc. The solution is more stable with simultaneous voice and text display.
- ◎ Unique noise reduction system, running more quiet.
- ◎ Self-diagnostic function voice text prompts and displays solutions, more stable and reliable with electronic instructions, never lost, easy to use.



1-16 Display Screen (4.3inches)



1-16 R Display Screen (5inches)

Self-developed HMC system

- ◎ 4.3/5 inch 3D HD LCD full touch screen, 3D interface is simple and clear, all parameters are clear at a glance.

- Long press the startup key 3S to open the startup mode.
- Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- The rotational speed, centrifugal force and temperature curves are displayed on the same screen to meet various centrifugal requirements, and the change relationship is clear and visible.
- Super large storage space, can store up to 99 program groups, 99 usage records and fault records can be traced.
- Fifteen speed-up and speed-down curves can be selected and free parking time can be set.
- Two timing modes are optional, start timing and arrival speed timing.
- Password lock function, users can set password to lock the host or parameters to prevent misoperation.
- There are many languages in the startup interface, which can be switched between Chinese and English.



Multi-function knob Home key, can be set to modify parameters independently.

- In the stop state, press the machine for more than 3 seconds to start running.
- When running, the machine starts to shut down after more than 3 seconds.
- Counterclockwise rotation reduces the value, clockwise rotation increases the value, and flexibly adjusts the required value.

1-16/1-16R centrifuge can be adapted to a series of high-quality aluminium and patentable new material rotors. In addition to conventional rotors, 1-16/1-16R centrifuge also adds several specially designed rotors to meet specific application requirements. (For customized rotor, please contact manufacturer)

Rotors of 1-16 and 1-16R Centrifuges

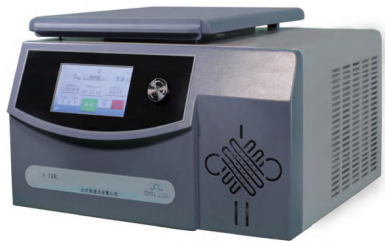
	Model	1-16	1-16R
	Capacity	12×5ml	
	Max RCF (rpm)	100-16500rpm	100-16500rpm
	Max RCF (×g)	15720×g	15720×g
	Centrifugal tube size	Φ 13.4×53.3	
	Model	1-16	1-16R
	Capacity	24×1.5/2.0ml	
	Max RCF (rpm)	100-15000rpm	100-15000rpm
	Max RCF (×g)	20625×g	20625×g
	Centrifugal tube size	Φ 10.3×41.2/×10.7×42	
	Model	1-16	1-16R
	Capacity	4×8×0.2mlPCR Pipe	
	Max RCF (rpm)	100-14000rpm	100-14000rpm
	Max RCF (×g)	14395×g	14395×g
	Centrifugal tube size	240×145×27mm	



Kecheng 1-16R
Design Concept

- > Humanized Switch Cover Action
 - Using Human Engineering to Reasonable Switch Height and Height
 - Cover closing force is small, easy to close
- > Menu Operating Panel
 - Operational menus provide multiple languages
 - Quick running of common programs with multiple keypads
- > Run quietly
 - Reduce noise greatly and optimize working environment

3-18R Desktop High-speed Refrigeration Centrifuge



3-18R Desktop High-speed Refrigeration Centrifuge

2019

2017-2018



Multicolored LED Display
H3-18R High Speed Refrigeration Centrifuge

2015-2016



Modified H3-18R High Speed Refrigeration Centrifuge

2006-2015



First External OEM H3-18R High Speed Refrigeration Centrifuge



3-18/3-18R Table High Speed Centrifuge

Scope of application:

The 3-18/3-18 Rmachine is widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugation in hospitals, research institutes and universities at all levels.

Product characteristics:

- ◎ Double lock button electronic door lock, full steel door cover protection, superior to industrial standards.
- ◎ External heat dissipation design, efficient heat dissipation of the internal circuit of the main engine, the temperature rise in the cavity is better than the industry standard, to ensure the safety of the sample.
- ◎ High quality hydraulic rod, imported damper seal, hydraulic damper does not decay for ten years.
- ◎ Food-grade integrated silica gel sealing ring, life-long service, more sealable.
- ◎ The automatic identification system of magnetic rotor automatically matches the corresponding rotor program, prevents the rotor from overspeeding and ensures centrifugal safety.
- ◎ Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- ◎ It has many protective functions, such as door cover, overspeed, over-temperature, over-current, over-pressure, over-heat, etc. The solution is more stable with simultaneous voice and text display.
- ◎ Unique noise reduction system, running more quiet.
- ◎ Self-diagnostic function voice text prompts and displays solutions, more stable and reliable with electronic instructions, never lost, easy to use.

Model 3-18 **Technical parameters**
Max RPM 18500rpm
Max RCF 23110×g
Max Capacity 4×100ml
Timer 1s~99h59min59s
Revolutions/min ±10r/min
Voltage AC 220±22V 50Hz 15A
Power 550W
Noise Level 62dB (A)
Chamber Diameter Φ320mm
Dimensions 515×400×330mm
Packging Dimensions 590×475×370mm
Net Weight 35Kg

Model 3-18R **Technical parameters**
(Low temperature or Refrigerated)
Max RPM 18500rpm
Max RCF 23110×g
Max Capacity 4×100ml
Timer 1s~99h59min59s
Revolutions/min ±10r/min
Temp Range -20℃~40℃
Temp Accuracy ±1.0℃
Voltage AC 220±22V 50Hz 15A
Power 1000W
Noise Level 58dB (A)
Chamber Diameter Φ320mm
Dimensions 545×610×355mm
Packging Dimensions 622×687×464mm
Net Weight 75Kg



3-18 Display Screen (7inches)



3-18 R Display Screen (7inches)

Self-developed HMC system

© 7inch 3D HD LCD full touch screen, 3D interface is simple and clear, all parameters are clear at a glance.

- There are many languages in the startup interface, which can be switched between Chinese and English.
- Long press the startup key 3S to open the startup mode.
- Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- The rotational speed, centrifugal force and temperature curves are displayed on the same screen to meet various centrifugal requirements, and the change relationship is clear and visible.
- Super large storage space, can store up to 99 program groups, 99 usage records and fault records can be traced.
- Fifteen speed-up and speed-down curves can be selected and free parking time can be set.
- Two timing modes are optional, start timing and arrival speed timing.
- Password lock function, users can set password to lock the host or parameters to prevent misoperation.



- In the stop state, press the machine for more than 3 seconds to start running.
- When running, the machine starts to shut down after more than 3 seconds.
- Counterclockwise rotation reduces the value, clockwise rotation increases the value, and flexibly adjusts the required value.

3-18/3-18R centrifuge can be adapted to a series of high-quality aluminium and patentable new material rotors. In addition to conventional rotors, 3-18/3-18R centrifuge also adds several specially designed rotors to meet specific application requirements. (For customized rotor, please contact manufacturer)

Rotors of 3-18 and 3-18R Centrifuges

	Model	3-18	3-18R
	Capacity	12×1.5/2.0ml	
	Max RCF (rpm)	100-18500rpm	100-18500rpm
	Max RCF (×g)	23110×g	23110×g
	Centrifugal tube size	Φ 10.3×41.2/×10.7×42	
	Model	3-18	3-18R
	Capacity	24×1.5/2.0ml	
	Max RCF (rpm)	100-15000rpm	100-15000rpm
	Max RCF (×g)	20625×g	20625×g
	Centrifugal tube size	Φ 10.3×41.2/×10.7×42	
	Model	3-18	3-18R
	Capacity	12×5ml	
	Max RCF (rpm)	100-16000rpm	100-16000rpm
	Max RCF (×g)	17888×g	17888×g
	Centrifugal tube size	Φ 13.4×53.3	
	Model	3-18	3-18R
	Capacity	12×10ml	
	Max RCF (rpm)	100-14000rpm	100-14000rpm
	Max RCF (×g)	17635×g	17635×g
	Centrifugal tube size	Φ 15.7×80.5	
	Model	3-18	3-18R
	Capacity	6×50ml Sharp/Round type General purpose	
	Max RCF (rpm)	100-13000rpm	100-13000rpm
	Max RCF (×g)	17760×g	17760×g
	Centrifugal tube size	Φ 28.9×116/×28.9×106.5	



Model	3-18	3-18R
Capacity	12×15ml Sharp type	
Max RCF (rpm)	100-12000rpm	100-12000rpm
Max RCF (×g)	15775×g	15775×g
Centrifugal tube size	Φ16.5×120	



Model	3-18	3-18R
Capacity	4×100ml	
Max RCF (rpm)	100-12000rpm	100-12000rpm
Max RCF (×g)	16175×g	16175×g
Centrifugal tube size	Φ37.8×106.2	



Model	3-18	3-18R
Capacity	8×50ml Sharp type	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	2680×g	2680×g
Centrifugal tube size	Φ28.9×116	



Model	3-18	3-18R
Capacity	2×2×96Elisa plate	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	2300×g	2300×g
Centrifugal tube size	Shallow hole: Φ6.3×11.2/Deep hole: Φ7.7×28.3	



Model	3-18	3-18R
Capacity	4×50ml+16×15ml	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	2810×g	2810×g
Centrifugal tube size	Φ28.9×116/Φ16.5×120	



3-20/3-20R Table High Speed Centrifuge

Scope of application:

The 3-20/3-20R machine is widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugation in hospitals, research institutes and universities at all levels.

Product characteristics:

- ◎ Double lock button electronic door lock, full steel door cover protection, superior to industrial standards.
- ◎ External heat dissipation design, efficient heat dissipation of the internal circuit of the main engine, the temperature rise in the cavity is better than the industry standard, to ensure the safety of the sample.
- ◎ High quality hydraulic rod, imported damper seal, hydraulic damper does not decay for ten years.
- ◎ Food-grade integrated silica gel sealing ring, life-long service, more sealable.
- ◎ The automatic identification system of magnetic rotor automatically matches the corresponding rotor program, prevents the rotor from overspeeding and ensures centrifugal safety.
- ◎ Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- ◎ It has many protective functions, such as door cover, overspeed, over-temperature, over-current, over-pressure, over-heat, etc. The solution is more stable with simultaneous voice and text display.
- ◎ Unique noise reduction system, running more quiet.
- ◎ Self-diagnostic function voice text prompts and displays solutions, more stable and reliable with electronic instructions, never lost, easy to use.

Model 3-20 Technical parameters

Max RPM 20000rpm

Max RCF 30185×g

Max Capacity 4×250ml

Timer 1s~99h59min59s

Revolutions/min ±10r/min

Voltage AC 220±22V 50Hz 15A

Power 750W

Noise Level 62dB (A)

Chamber Diameter Φ380mm

Dimensions 540×430×395mm

Packing Dimensions 627×502×442mm

Net Weight 45Kg

Model 3-20R Technical parameters

(Low temperature or Refrigerated)

Max RPM 20000rpm

Max RCF 30185×g

Max Capacity 4×250ml

Timer 1s~99h59min59s

Revolutions/min ±10r/min

Temp Range -20℃~40℃

Temp Accuracy ±1.0℃

Voltage AC 220±22V 50Hz 15A

Power 1100W

Noise Level 58dB (A)

Chamber Diameter Φ380mm

Dimensions 610×660×370mm

Packing Dimensions 687×737×464mm

Net Weight 84Kg



3-20 Display Screen (7inches)



3-20 R Display Screen (7inches)

Self-developed HMC system

© 7inch 3D HD LCD full touch screen, 3D interface is simple and clear, all parameters are clear at a glance.

- > There are many languages in the startup interface, which can be switched between Chinese and English.
- > Long press the startup key 3S to open the startup mode.
- > Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- > The rotational speed, centrifugal force and temperature curves are displayed on the same screen to meet various centrifugal requirements, and the change relationship is clear and visible.
- > Super large storage space, can store up to 99 program groups, 99 usage records and fault records can be traced.
- > Fifteen speed-up and speed-down curves can be selected and free parking time can be set.
- > Two timing modes are optional, start timing and arrival speed timing.
- > Password lock function, users can set password to lock the host or parameters to prevent misoperation.



Multi-function knob Home key, can be set to modify parameters independently.

- > In the stop state, press the machine for more than 3 seconds to start running.
- > When running, the machine starts to shut down after more than 3 seconds.
- > Counterclockwise rotation reduces the value, clockwise rotation increases the value, and flexibly adjusts the required value.

3-20/3-20R centrifuge can be adapted to a series of high-quality aluminium and patentable new material rotors. In addition to conventional rotors, 3-20 / 3-20R centrifuge also adds several specially designed rotors to meet specific application requirements. (For customized rotor, please contact manufacturer)

Rotors of 3-20 and 3-20R Centrifuges



Model	3-20	3-20R
Capacity	16 × 1.5/2.0ml	
Max RCF (rpm)	100-20000rpm	100-20000rpm
Max RCF (×g)	30185 ×g	30185 ×g
Centrifugal tube size	Φ 10.3 × 41.2/ × 10.7 × 42	



Model	3-20	3-20R
Capacity	12 × 5ml	
Max RCF (rpm)	100-18000rpm	100-18000rpm
Max RCF (×g)	22640 ×g	22640 ×g
Centrifugal tube size	Φ 13.4 × 53.3	



Model	3-20	3-20R
Capacity	36 × 1.5/2.0ml	
Max RCF (rpm)	100-14000rpm	100-14000rpm
Max RCF (×g)	19280 ×g	19280 ×g
Centrifugal tube size	Φ 10.3 × 41.2/ × 10.7 × 42	



Model	3-20	3-20R
Capacity	6 × 50ml Sharp/Round type General purpose	
Max RCF (rpm)	100-14000rpm	100-14000rpm
Max RCF (×g)	20598 ×g	20598 ×g
Centrifugal tube size	Φ 28.9 × 116/ × 28.9 × 106.5	



Model	3-20	3-20R
Capacity	12 × 15ml Sharp type	
Max RCF (rpm)	100-12000rpm	100-12000rpm
Max RCF (×g)	15775 ×g	15775 ×g
Centrifugal tube size	Φ 16.5 × 120	



Model	3-20	3-20R
Capacity	6×100ml	
Max RCF (rpm)	100-12000rpm	100-12000rpm
Max RCF (×g)	17918×g	17918×g
Centrifugal tube size	Φ37.8×106.2	



Model	3-20	3-20R
Capacity	Swing out Rotor with Multi-Pipe Frame	
Max RCF (rpm)	100-4200rpm	100-4200rpm
Max RCF (×g)	3100×g	3100×g
Please refer to page 27 for details.		



Model	3-20	3-20R
Capacity	4×250ml	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	3500×g	3500×g
Centrifugal tube size	Φ61.4×122	



Model	3-20	3-20R
Capacity	2×2×96Elisa plate	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	2300×g	2300×g
Centrifugal tube size	Shallow hole: Φ6.3×11.2/Deep hole: Φ7.7×28.3	



4-5/4-5R Table Low Speed Centrifuge

Scope of application:

The 4-5/4-5R machine is widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugation in hospitals, research institutes and universities at all levels.

Product characteristics:

- ◎ Double lock button electronic door lock, full steel door cover protection, superior to industrial standards.
- ◎ External heat dissipation design, efficient heat dissipation of the internal circuit of the main engine, the temperature rise in the cavity is better than the industry standard, to ensure the safety of the sample.
- ◎ High quality hydraulic rod, imported damper seal, hydraulic damper does not decay for ten years.
- ◎ Food-grade integrated silica gel sealing ring, life-long service, more sealable.
- ◎ The automatic identification system of magnetic rotor automatically matches the corresponding rotor program, prevents the rotor from overspeeding and ensures centrifugal safety.
- ◎ Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- ◎ It has many protective functions, such as door cover, overspeed, over-temperature, over-current, over-pressure, over-heat, etc. The solution is more stable with simultaneous voice and text display.
- ◎ Unique noise reduction system, running more quiet.
- ◎ Self-diagnostic function voice text prompts and displays solutions, more stable and reliable with electronic instructions, never lost, easy to use.

Model 4-5 Technical parameters

Max RPM 6500rpm
 Max RCF 5190×g
 Max Capacity 4×750ml
 Timer 1s~99h59min59s
 Revolutions/min ±10r/min
 Voltage AC 220±22V 50Hz 15A
 Power 750W
 Noise Level 65dB (A)
 Chamber Diameter Φ430mm
 Dimensions 560×460×390mm
 Packing Dimensions 637×537×484mm
 Net Weight 58Kg

Model 4-5R Technical parameters

(Low temperature or Refrigerated)

Max RPM 6500rpm
 Max RCF 5190×g
 Max Capacity 4×750ml
 Timer 1s~99h59min59s
 Revolutions/min ±10r/min
 Temp Range -20℃~40℃
 Temp Accuracy ±1.0℃
 Voltage AC 220±22V 50Hz 30A
 Power 1500W
 Noise Level 62dB (A)
 Chamber Diameter Φ430mm
 Dimensions 670×700×450mm
 Packing Dimensions 747×777×544mm
 Net Weight 106Kg



4-5 Display Screen (7inches)



4-5R Display Screen (7inches)

Self-developed HMC system

© 7inch 3D HD LCD full touch screen, 3D interface is simple and clear, all parameters are clear at a glance.

- > There are many languages in the startup interface, which can be switched between Chinese and English.
- > Long press the startup key 3S to open the startup mode.
- > Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- > The rotational speed, centrifugal force and temperature curves are displayed on the same screen to meet various centrifugal requirements, and the change relationship is clear and visible.
- > Super large storage space, can store up to 99 program groups, 99 usage records and fault records can be traced.
- > Fifteen speed-up and speed-down curves can be selected and free parking time can be set.
- > Two timing modes are optional, start timing and arrival speed timing.
- > Password lock function, users can set password to lock the host or parameters to prevent misoperation.



Multi-function knob Home key, can be set to modify parameters independently.

- > In the stop state, press the machine for more than 3 seconds to start running.
- > When running, the machine starts to shut down after more than 3 seconds.
- > Counterclockwise rotation reduces the value, clockwise rotation increases the value, and flexibly adjusts the required value.

4-5/4-5R centrifuge can be adapted to a series of high-quality aluminium and patentable new material rotors. In addition to conventional rotors, 4-5/4-5R centrifuge also adds several specially designed rotors to meet specific application requirements. (For customized rotor, please contact manufacturer)

Rotors of 4-5 and 4-5R Centrifuges



Model	4-5	4-5R
Capacity	6×50ml	
Max RCF (rpm)	100-6500rpm	100-6500rpm
Max RCF (×g)	5190×g	5190×g
Centrifugal tube size	Φ28.9×106.5	



Model	4-5	4-5R
Capacity	12×10ml	
Max RCF (rpm)	100-6500rpm	100-6500rpm
Max RCF (×g)	5190×g	5190×g
Centrifugal tube size	Φ15.7×80.5	



Model	4-5	4-5R
Capacity	Swing out Rotor with Multi-Pipe Frame	
Max RCF (rpm)	100-4200rpm	100-4200rpm
Max RCF (×g)	3100×g	3100×g
Please refer to page 27 for details.		



Model	4-5	4-5R
Capacity	4/6×250ml	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	3500×g	3500×g
Centrifugal tube size	Φ61.4×122	



Model	4-5	4-5R
Capacity	72×5/7ml	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	3580×g	3500×g
Centrifugal tube size	Φ13.4×53.3/Φ15.7×80.5 (Vacuum blood collection tube)	



Model	4-5	4-5R
Capacity	4×500/750ml / Adapter	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	3580×g	3580×g
Centrifugal tube size	Φ78.7×135.7/Φ99.5×138	

For more adapter details, see page 25.



Model	4-5	4-5R
Capacity	100×5/7ml	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	3580×g	3580×g
Centrifugal tube size	Φ13.4×53.3/Φ15.7×80.5 (Vacuum blood collection tube)	



Model	4-5	4-5R
Capacity	120×5/7ml	
Max RCF (rpm)	100-4000rpm	100-4000rpm
Max RCF (×g)	3580×g	3580×g
Centrifugal tube size	Φ13.4×53.3/Φ15.7×80.5 (Vacuum blood collection tube)	



Model	4-5	4-5R
Capacity	4×2×96Elisa plate / Square hanging basket	
Max RCF (rpm)	100-4200rpm	100-4200rpm
Max RCF (×g)	3910×g	3910×g
Centrifugal tube size	Shallow hole: Φ6.3×11.2/Deep hole: Φ7.7×28.3	

For more details on the square hanging basket, see pages 25-26.



4-20/4-20R Table High Speed Centrifuge

Scope of application:

The 4-20/4-20R machine is widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugation in hospitals, research institutes and universities at all levels.

Product characteristics:

- ◎ Double lock button electronic door lock, full steel door cover protection, superior to industrial standards.
- ◎ External heat dissipation design, efficient heat dissipation of the internal circuit of the main engine, the temperature rise in the cavity is better than the industry standard, to ensure the safety of the sample.
- ◎ High quality hydraulic rod, imported damper seal, hydraulic damper does not decay for ten years.
- ◎ Food-grade integrated silica gel sealing ring, life-long service, more sealable.
- ◎ The automatic identification system of magnetic rotor automatically matches the corresponding rotor program, prevents the rotor from overspeeding and ensures centrifugal safety.
- ◎ Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- ◎ It has many protective functions, such as door cover, overspeed, over-temperature, over-current, over-pressure, over-heat, etc. The solution is more stable with simultaneous voice and text display.
- ◎ Unique noise reduction system, running more quiet.
- ◎ Self-diagnostic function voice text prompts and displays solutions, more stable and reliable with electronic instructions, never lost, easy to use.

Model 4-20 **Technical parameters**
Max RPM 21000rpm
Max RCF 29780×g
Max Capacity 4×750ml
Timer 1s~99h59min59s
Revolutions/min ±10r/min
Voltage AC 220±22V 50Hz 20A
Power 1200W
Noise Level 65dB (A)
Chamber Diameter Φ430mm
Dimensions 560×460×390mm
Packging Dimensions 637×537×484mm
Net Weight 58Kg

Model 4-20R **Technical parameters**
(Low temperature or Refrigerated)
Max RPM 23000rpm
Max RCF 35720×g
Max Capacity 4×750ml
Timer 1s~99h59min59s
Revolutions/min ±10r/min
Temp Range -20℃~40℃
Temp Accuracy ±1.0℃
Voltage AC 220±22V 50Hz 30A
Power 1800W
Noise Level 62dB (A)
Chamber Diameter Φ430mm
Dimensions 670×700×450mm
Packging Dimensions 747×777×544mm
Net Weight 106Kg



4-20 Display Screen (7inches)

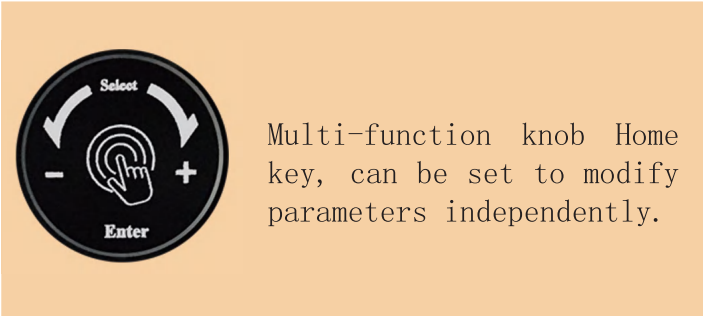


4-20R Display Screen (7inches)

Self-developed HMC system

© 7inch 3D HD LCD full touch screen, 3D interface is simple and clear, all parameters are clear at a glance.

- >There are many languages in the startup interface, which can be switched between Chinese and English.
- >Long press the startup key 3S to open the startup mode.
- >Humanized design is easy to operate, parameter setting is directly digital input, accurate to individual intelligent status prompt.
- >The rotational speed, centrifugal force and temperature curves are displayed on the same screen to meet various centrifugal requirements, and the change relationship is clear and visible.
- >Super large storage space, can store up to 99 program groups, 99 usage records and fault records can be traced.
- > Fifteen speed-up and speed-down curves can be selected and free parking time can be set.
- >Two timing modes are optional, start timing and arrival speed timing.
- >Password lock function, users can set password to lock the host or parameters to prevent misoperation.



- > In the stop state, press the machine for more than 3 seconds to start running.
- > When running, the machine starts to shut down after more than 3 seconds.
- > Counterclockwise rotation reduces the value, clockwise rotation increases the value, and flexibly adjusts the required value.

4-20/4-20R centrifuge can be adapted to a series of high-quality aluminium and patentable new material rotors. In addition to conventional rotors, 4-20/4-20R centrifuge also adds several specially designed rotors to meet specific application requirements. (For customized rotor, please contact manufacturer)

Rotors of 4-20 and 4-20R Centrifuges



Model	4-20	4-20R
Capacity	12 × 1.5/2.0ml	
Max RCF (rpm)	100-21000rpm	100-23000rpm
Max RCF (×g)	29780 × g	35720 × g
Centrifugal tube size	Φ 10.3 × 41.2/ × 10.7 × 42	



Model	4-20	4-20R
Capacity	12 × 5ml	
Max RCF (rpm)	100-18000rpm	100-20000rpm
Max RCF (×g)	22640 × g	27950 × g
Centrifugal tube size	Φ 13.4 × 53.3	



Model	4-20	4-20R
Capacity	24 × 1.5/2.0ml	
Max RCF (rpm)	100-16000rpm	100-18000rpm
Max RCF (×g)	23470 × g	29700 × g
Centrifugal tube size	Φ 10.3 × 41.2/ × 10.7 × 42	



Model	4-20	4-20R
Capacity	12 × 10ml	
Max RCF (rpm)	100-15000rpm	100-16000rpm
Max RCF (×g)	20250 × g	23040 × g
Centrifugal tube size	Φ 15.7 × 80.5	



Model	4-20	4-20R
Capacity	48 × 1.5/2.0ml	
Max RCF (rpm)	100-14000rpm	100-16000rpm
Max RCF (×g)	20488 × g	26760 × g
Centrifugal tube size	Φ 10.3 × 41.2/ × 10.7 × 42	



Model	4-20	4-20R
Capacity	4 × 100ml	
Max RCF (rpm)	100-14000rpm	100-15000rpm
Max RCF (×g)	22020 × g	25280 × g
Centrifugal tube size	Φ37.8 × 106.2	



Model	4-20	4-20R
Capacity	6 × 50mlSharp/Round type General purpose	
Max RCF (rpm)	100-14000rpm	100-15000rpm
Max RCF (×g)	20598 × g	23645 × g
Centrifugal tube size	Φ 28.9 × 116/ × 28.9 × 106.5	



Model	4-20	4-20R
Capacity	12 × 15ml Sharp type	
Max RCF (rpm)	100-12000rpm	100-14000rpm
Max RCF (×g)	15775 × g	21475 × g
Centrifugal tube size	Φ 16.5 × 120	



Model	4-20	4-20R
Capacity	8 × 8 × 0.2mlPCR Pipe	
Max RCF (rpm)	100-14000rpm	100-14000rpm
Max RCF (×g)	16434 × g	16434 × g
Centrifugal tube size	240 × 145 × 27mm	



Model	4-20	4-20R
Capacity	4 × 500/750ml / adapter	
Max RCF (rpm)	100-4200rpm	100-4200rpm
Max RCF (×g)	3950 × g	3950 × g
Centrifugal tube size	Φ78.7 × 135.7/Φ99.5 × 138	

For more adapter details, see page 25.



Model	4-20	4-20R
Capacity	4 × 2 × 96Elisa plate / Square hanging basket	
Max RCF (rpm)	100-4200rpm	100-4200rpm
Max RCF (×g)	3910 × g	3910 × g
Centrifugal tube size	Shallow hole: Φ6.3 × 11.2/Deep hole: Φ 7.7 × 28.3	

For more details on the square hanging basket, see pages 25-26.



4-21R Floor High Speed Refrigerated Centrifuge

Scope of application:

The 4-21R machine is widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugation in hospitals, research institutes and universities at all levels.

The 4-21R series centrifuges not only have the basic characteristics of high speed and large capacity, but also have ergonomic operation, excellent temperature control performance and excellent product quality.

Refrigeration centrifuge has many characteristics, such as compressor control technology to provide automatic refrigeration standby function, optimize refrigeration performance, reduce energy consumption.

Model 4-21R Technical parameters

(Low temperature or Refrigerated)

Max RPM 23000rpm

Max RCF 35720×g

Max Capacity 4×750ml

Timer 1s~99h59min59s

Revolutions/min ±10r/min

Temp Range -20℃~40℃

Temp Accuracy ±1.0℃

Voltage AC 220±22V 50Hz 30A

Power 1800W

Noise Level 65dB (A)

Chamber Diameter Φ420mm

Dimensions 680×520×810mm

Packging Dimensions 755×595×950mm

Net Weight 150Kg