

Technical Specification

Model	UniSpin-18MRA	UniSpin-18MRB
Maximum Capacity	1000ml (4×250ml)	2000ml (4×500ml)
Speed Range	200~18000rpm / step increase of 10rpm	
Speed Accuracy	±20rpm	
Maximum RCF.	23470×g / Step increase 10×g	24100×g / Step increase 10×g
Temperature Setting Range	0℃~+40℃/step increase of 0.1℃/display accuracy of 0.1℃/control accuracy of ± 2℃	
Control Temp. @ Max. Load/Max. Speed	-20℃~+40℃/Step increase of 0.1℃/display accuracy of 0.1℃/control accuracy of ± 2℃	
Drive Motor	Maintenance-free brushless DC variable frequency motor	
Effective Centrifugal Time	1-99 hours/1-59 minutes/1-59 seconds; Three modes optional; Accuracy ± 1 second	
Drive Control System	FOC vector sine wave drive	
Control Method	Multi-touch+physical keys	
Stored Program	30 built-in storage programs/5 panel shortcut program calls/equipped with NORAML buttons	
Display Method	7-inch IPS full view 16M chromatic true color LCD display/resolution 1024 × 600dpi	
Door Locking Method	Electric control automation suction type double lock	
Maximum Acceleration Time/Gear	20s/9tgears	
Maximum Deceleration Time/Gear	22s/10gears, 0 gears free stop	
Refrigeration compressor/refrigerant	Import SECOP® Complies with domestic 3C certification/R134a	
Noise Level @ Maximum Speed	≤65dB(A)	
Power Supply	AC220V/50~60Hz	
Power Consumption	850W	900W
Dimension (L×W×H)	560mm×680mm×376mm	7000mm×620mm×380mm
Net Weight (without rotors)	95Kg	115Kg
Protection Level	IP20	
Permissible Ambient Temp./Relative Humidity	+5~40℃/80%	
Interference Suppression Standard	EN 61010-1, EN 61010-2-020, EN 61326-1, EN 61010-3-2/A2	

*Ultrassay BioTech Co., Ltd. reserves the right of final interpretation of different specifications, And products upgrade without notice.

Available Rotors

M18R-A-1

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 12×1.5/2.0ml
Max. Speed: 20000rpm
Max. RCF: 27815×g
Rotor material: Aluminum alloy



M18R-A-3

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 24×1.5/2.0ml
Max. Speed: 16000rpm
Max. RCF: 24100×g
Rotor material: Aluminum alloy



M18R-A-3

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 36×1.5/2.0ml
Max. Speed: 14000rpm
Max. RCF: 18010×g
Rotor material: Aluminum alloy



M18R-A-4

for UniSpin-18MRB

Rotor Type: Angle Rotor
Max. Capacity: 48×1.5/2.0ml
Max. Speed: 13000rpm
Max. RCF: 10850×g
Rotor material: Aluminum alloy



UniSpin-18MR

High/Low Speed Universal Refrigerated Centrifuge

Description

UniSpin-18MR high/low-speed universal centrifuge is commonly used for bacterial and infectious virus separation, nucleic acid separation, gradient density centrifugation, blood separation, and clinical sample processing. It has the advantages of powerful functionality, high versatility, and easy operability. It adopts innovative control technology, reliable quality, and superior performance, and is widely used in medical clinical biochemistry, hematology, immunology, clinical research and molecular biology, as well as routine analysis in industrial laboratories. It is more prominent in experimental research on genetic genes, protein nucleic acids, and PCR products.



Features

- The machine is compatible with various high-speed angle rotors and low-speed swing-out baskets, saving laboratory space. It is suitable for all regular centrifuge tubes, vacuum blood collection vessels, etc;
- An imported refrigeration compressor empolys the R134a which is an environmentally friendly refrigerant with PID temperature control system, resulting in faster and more accurate cooling effect. Maintain the sample at 4℃ at the highest speed;
- The independent Pre Cooling button on the panel can be used to rapidly cool the chamber from room temperature to 4℃;
- The rotating head is equipped with rotor automatic identification system and imbalance detector to ensure centrifugal safety;
- An independent Flash centrifugal button for quick centrifuging;
- Electromagnetic double-door lock design allows the lid to close quickly with a gentle press, making it quieter and safer;
- Centrifuge lid is supported by dual gas springs, providing smoother door opening and closing and a lower lid height;
- 30 customizable storage programs / 5 quick-access programs on the panel for easier and faster operation;
- Centrifuge chamber coated with Teflon to resist corrosion from strong chemical samples;
- Lid sealing ring is made with imported gas-phase silicone in a one-piece mold, ensuring better sealing performance and long-lasting use;
- 7-inch IPS full-view display with 16 million true colors, adjustable brightness, fully meeting health standards;
- External USB 2.0 port for easy system upgrades and experimental data downloads;
- Built-in start timing and steady timing modes to effectively calculate centrifugation efficiency;
- Variety of shutdown melodies, with adjustable music and alert duration for a more pleasant experiment experience;
- Display interface supports Chinese and English menu switching;

Available Rotors

M18R-A-15

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 8×50ml
Max. Speed: 6000rpm
Max. RCF: 5150×g
Rotor material: Stainless steel



Rotor	Bucket	Adaptor	Capacity	Adaptor	Capacity
 Swing-out Rotor Volume: 4×250ml Max. speed: 4500rpm Max. RCF: 3780×g Order No.: 18R-S Apply to UniSpin-18MRA	 Oval Bucket		4×1×250ml 4500rpm/3780×g		4×8×15ml 4500rpm/3780×g
			4×2×100ml 4500rpm/3780×g		4×13×8/10ml 4000rpm/2916×g
			4×4×50ml 4500rpm/3780×g		4×16×5ml 4000rpm/2860×g
 Swing-out Rotor Volume: 4×500ml Max. speed: 4000rpm Max. RCF: 3095×g Order No.: 18R-S1 Apply to UniSpin-18MRB	 Round Bucket (Biosafety lid optional)		4×1×500ml 4000rpm/3095×g		4×4×50ml 4000rpm/3095×g
			4×1×250ml 4000rpm/3095×g		4×9×15ml 4000rpm/3095×g
			4×3×100ml 4000rpm/3095×g		4×21×5ml 4000rpm/3095×g



Ultrassay BioTech Co., Ltd.

RM3018 Poly D9, No. 999 Luzhou Avenue, Baohe District, Hefei, Anhui, China

Tel: +86-551-62881663

E-mail: info@ultrassay.com

Website: https://ultrassay.com

Available Rotors

M18R-A-5

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 36×0.5ml
Max. Speed: 15000rpm
Max. RCF: 16350×g
Rotor material: Aluminum alloy



M18R-A-6

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 4×8-strips 0.2ml
Max. Speed: 14800rpm
Max. RCF: 16200×g
Rotor material: Aluminum alloy



M18R-A-7

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 12×5ml
Max. Speed: 16000rpm
Max. RCF: 18890×g
Rotor material: Aluminum alloy



M18R-A-8

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 10×5ml
Max. Speed: 16000rpm
Max. RCF: 20665×g
Rotor material: Aluminum alloy



M18R-A-9

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 12×10ml
Max. Speed: 13000rpm
Max. RCF: 15315×g
Rotor material: Aluminum alloy



M18R-A-10

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 8×15ml
Max. Speed: 13000rpm
Max. RCF: 17570×g
Rotor material: Aluminum alloy



M18R-A-11

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 6×50ml
Max. Speed: 12000rpm
Max. RCF: 16501×g
Rotor material: Aluminum alloy



M18R-A-12

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 4×100ml
Max. Speed: 12000rpm
Max. RCF: 15940×g
Rotor material: Aluminum alloy



M18R-AP



M18R-S-2

for UniSpin-18MRA/18MRB

Rotor Type: Swing-out Rotor
Max. Capacity: 2×4 Microplate or 2×2 DWP
Max. Speed: 4000rpm
Max. RCF: 2470×g
Rotor material: Aluminum alloy



M18R-A-13

for UniSpin-18MRA/18MRB

Rotor Type: Angle Rotor
Max. Capacity: 12×15ml
Max. Speed: 6000rpm
Max. RCF: 5150×g
Rotor material: Stainless steel



M18R-A-14

for UniSpin-18MRA/18MB

Rotor Type: Angle Rotor
Max. Capacity: 24×15ml
Max. Speed: 6000rpm
Max. RCF: 5694×g
Rotor material: Stainless steel

