

Technical Specification

Model	UniSpin-20MR
Maximum Capacity	3000ml (4×750ml)
Speed Range	200~20000rpm / step increase of 10rpm
Speed Accuracy	±20rpm
Maximum RCF.	28260×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	950W
Dimension (L×W×H)	560mm×680mm×376mm
Net Weight (without rotors)	130Kg
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

M20R-A-1

for UniSpin-20MR

Rotor Type: Angle Rotor
Max. Capacity: 12×1.5/2.0ml
Max. Speed: 20000rpm
Max. RCF: 28260×g
Rotor material: Aluminum alloy

M20R-A-3

for UniSpin-20MR

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

M20R-A-3

for UniSpin-20MR

Rotor Type: Angle Rotor
Max. Capacity: 36×1.5/2.0ml
Max. Speed: 14000rpm
Max. RCF: 18350×g
Rotor material: Aluminum alloy

M20R-A-4

for UniSpin-20MR

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

UniSpin-20MR
High/Low Speed Universal Refrigerated Centrifuge

Description

UniSpin-20MR 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

Rotor	Bucket	Adaptor	Capacity	Adaptor	Capacity
 Swing-out Rotor Volume: 4×750ml Max. speed: 4000rpm Max. RCF: 3460×g Order No.: 20R-S1	 Round Bucket (Biosafety lid optional)		4×1×500ml 4000rpm/3095×g		4×2×50ml 4000rpm/3400×g
			4×250ml + 40×5ml 4000rpm/3280×g		4×14×15ml 4000rpm/3400×g
			4×4×100ml 4000rpm/3400×g		4×26×5ml 4000rpm/3205×g
			4×500ml Falcon Tube 4000rpm/3460×g		
 Swing-out Rotor Volume: 4×250ml Max. speed: 4000rpm Max. RCF: 3525×g Order No.: 20R-S2	 V Bottom Bucket (Biosafety lid optional)		4×1×250ml 4000rpm/3525×g		
 Swing-out Rotor Max. Speed: 4000rpm Max. RCF: 2470×g Order No.: 20R-S3			2×4 Microplate / 2×2 Deep Well Plate		
 Swing-out Rotor Max. Speed: 4000rpm Max. RCF: 3488×g Order No.: 20R-S4	 Automatic Decap Bucket		4×25×5ml 4000rpm/3488×g		



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Available Rotors

M20R-A-5 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 36×0.5ml Max. Speed: 15000rpm Max. RCF: 16350×g Rotor material: Aluminum alloy 	M20R-A-6 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 4×8-strips 0.2ml Max. Speed: 14800rpm Max. RCF: 16200×g Rotor material: Aluminum alloy 
M20R-A-7 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 12×5ml Max. Speed: 16000rpm Max. RCF: 18890×g Rotor material: Aluminum alloy 	M20R-A-8 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 10×5ml Max. Speed: 16000rpm Max. RCF: 20665×g Rotor material: Aluminum alloy 
M20R-A-9 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 12×10ml Max. Speed: 13000rpm Max. RCF: 15315×g Rotor material: Aluminum alloy 	M20R-A-10 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 8×15ml Max. Speed: 13000rpm Max. RCF: 17570×g Rotor material: Aluminum alloy 
M20R-A-11 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 6×50ml Max. Speed: 12000rpm Max. RCF: 16501×g Rotor material: Aluminum alloy 	M20R-A-12 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 8×50ml Max. Speed: 11000rpm Max. RCF: 15490×g Rotor material: Aluminum alloy 
M18R-A-13 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 4×100ml Max. Speed: 12000rpm Max. RCF: 15940×g Rotor material: Aluminum alloy 	M18R-A-14 for UniSpin-20MR Rotor Type: Angle Rotor Max. Capacity: 6×100ml Max. Speed: 11000rpm Max. RCF: 13850×g Rotor material: Aluminum alloy 
M18R-AP  15ml Adapter  0.5ml Adapter  0.2ml Adapter  50ml Adapter	