

Technical Specification

Model	HiSpin-16MR
Maximum Capacity	400ml (4×100ml)
Speed Range	100~16000rpm / step increase of 10rpm
Speed Accuracy	±20rpm
Maximum RCF.	23470×g / Step increase 10×g
Temperature Setting Range	-20℃~+40℃/Step increase of 0.1℃/display accuracy of 0.1℃/control accuracy of ± 2℃
Control Temp. @ Max. Load/Max. Speed	0℃~+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	18s/9tgears
Maximum Deceleration Time/Gear	20s/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	750W
Dimension (L×W×H)	493mm×584mm×345mm
Net Weight (without rotors)	60Kg
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

M16R-A-1

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 24×1.5/2.0ml  
Max. Speed: 16000rpm  
Max. RCF: 23470×g  
Rotor material: Aluminum alloy



M16R-A-3

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 18×1.5/2.0ml  
Max. Speed: 16000rpm  
Max. RCF: 19550×g  
Rotor material: Aluminum alloy



M16R-A-3

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 36×1.5/2.0ml  
Max. Speed: 14000rpm  
Max. RCF: 18190×g  
Rotor material: Aluminum alloy



M16R-A-4

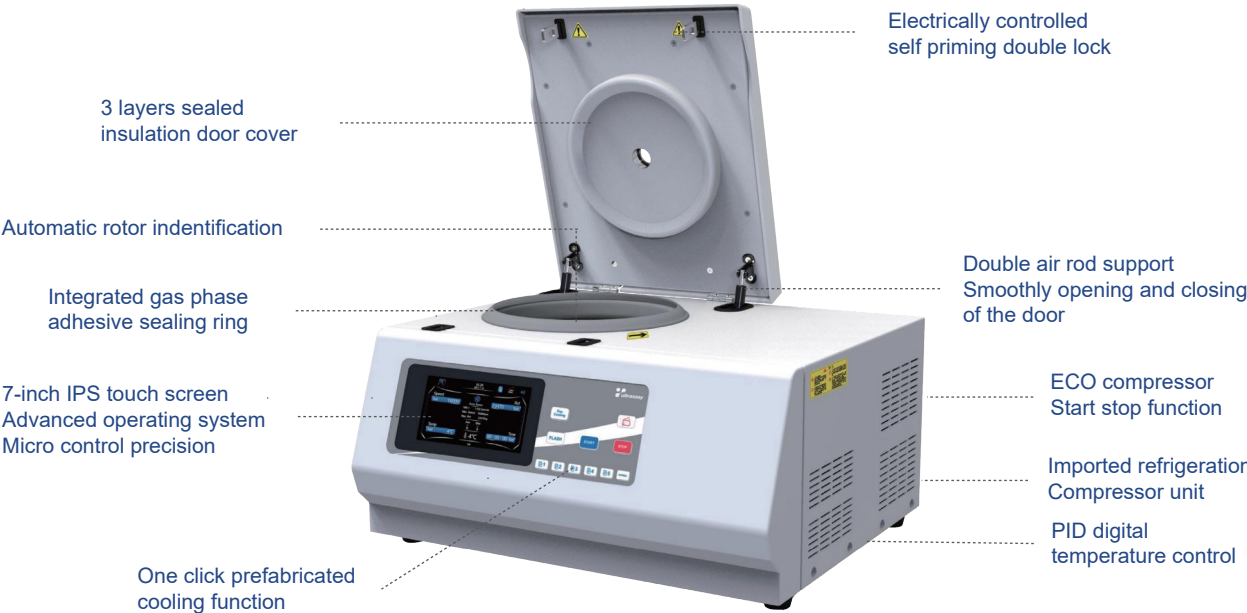
for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 48×1.5/2.0ml  
Max. Speed: 13000rpm  
Max. RCF: 10850×g  
Rotor material: Aluminum alloy



HiSpin-16MR  
High-Speed Refrigerated Centrifuge

Description

HiSpin-18MR high-speed refrigerated centrifuge combines powerful functionality, high versatility, and ease of operation. It uses innovative control technology, is reliable in quality, and has excellent performance. It is widely used in clinical biochemical, hematology, immunology, and clinical research laboratories, as well as in routine analysis in industrial laboratories. Its advantages are particularly notable in experimental research involving genetics, proteins, 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;

Order Information

Part.No.	Part Name	Tube Specification	Refer to	Standard/optional
M.01.035	HiSpin-16MR	-	-	
L.02.003	16R A-1	PP round/conical bottom with cover	Host	Optional
L.02.031	16R A-1(2)	PP round/conical bottom with cover	Host	Optional
L.02.004	16R A-2	PP round/conical bottom with cover	Host	Optional
L.02.005	16R A-3	PP cone bottom with cover	Host	Optional
L.02.006	16R A-4	PP round bottom with cover	Host	Optional
L.02.030	16R A-4(2)	PP cone bottom with cover	Host	Optional
L.02.007	16R A-5	PP cone bottom with cover	Host	Optional
L.02.008	16R A-6	PP cone bottom with cover	Host	Optional
L.02.009	16R A-7	PP cone bottom with cover	Host	Optional
L.02.010	16R A-8	PP round bottom with cover	Host	Optional
L.02.011	16R A-9	PP round bottom with cover	Host	Optional
L.06.003	A-1.1	PP cone bottom with cover	A-1/A-2	Standard
L.06.004	A-1.2	PP cone bottom with cover	A-1/A-2	Standard
B.07.021	A-7.1	PP cone bottom with cover	A-7	Optional
B.07.022	A-7.2	PP round bottom with cover	A-7	Optional

Available Rotors

M16R-A-5

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 36×0.5ml  
Max. Speed: 15000rpm  
Max. RCF: 16350×g  
Rotor material: Aluminum alloy

M16R-A-6

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 12×5ml  
Max. Speed: 16000rpm  
Max. RCF: 18890×g  
Rotor material: Aluminum alloy

M16R-A-7

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 10×5ml  
Max. Speed: 16000rpm  
Max. RCF: 20665×g  
Rotor material: Aluminum alloy

M16R-A-8

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 4×8-strips 0.2ml  
Max. Speed: 14800rpm  
Max. RCF: 16200×g  
Rotor material: Aluminum alloy

M16R-A-9

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 8×15ml  
Max. Speed: 13000rpm  
Max. RCF: 17570×g  
Rotor material: Aluminum alloy

M16R-A-10

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 6×50ml  
Max. Speed: 12000rpm  
Max. RCF: 16500×g  
Rotor material: Aluminum alloy

M16R-A-11

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 4×100ml  
Max. Speed: 12000rpm  
Max. RCF: 15940×g  
Rotor material: Aluminum alloy

M16R-A-12

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 12×10ml  
Max. Speed: 13000rpm  
Max. RCF: 15315×g  
Rotor material: Aluminum alloy

M16R-A-13

for HiSpin-16MR  
Rotor Type: Angle Rotor  
Max. Capacity: 12×1.5/2.0ml  
Max. Speed: 20000rpm  
Max. RCF: 27820×g  
Rotor material: Aluminum alloy

M16R-AP

15ml Adapter    0.5ml Adapter    0.2ml Adapter    50ml Adapter

