

High Speed Refrigerated Centrifuge HBSMH-18R

Description

The HBSMH18R high-speed and low-speed multifunctional 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 operation. 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.



Advantage

- The main unit is compatible with various high-speed single turntables and low-speed horizontal hanging baskets, saving laboratory space. It has a wide selection of angle turntables and hanging baskets, suitable for commonly used centrifugal tubes, vacuum blood collection vessels, etc.
- The imported refrigeration compressor set R134a is an environmentally friendly refrigerant with PID digital temperature controlling, resulting in faster and more accurate cooling effect. It can still maintain the sample at 4°C at the highest speed.
- The independent Pre Cooling quick pre cooling function on the panel can be used in a very short time to reach 4°C at room temperature.
- The rotating head automatically recognizes the current maximum rotor speed and can also be manually set and imbalance detected to ensure centrifugal safety . Separate Flash instantaneous centrifugal button, press and turn.
- Equipped with a soft start function, the soft start circuit can prevent sudden current flow in the circuit during power on. It slows down the rise rate of output voltage by minimizing overcurrent during startup. It helps to protect equipment or electronic components from damage caused by instantaneous high input currents.
- Electronic circuit breaker protector, bidding farewell to traditional fuse automatic pop-up, protecting electronic components.
- Equipped with experimental parameter recording function, real-time viewing of operation records.
- The electric suction double door lock design allows for quick closure of the door cover with just one press, making it quieter and safer.
- The centrifugal door cover is supported by double air rods, making the opening and closing of the door smoother and the opening height lower; 30 custom storage programs / 5 quick storage programs call on the panel, making it more convenient and efficient.
- The centrifugal chamber is coated with Teflon to resist centrifugation of highly corrosive samples.
- The door cover sealing ring is formed using an imported gas-phase adhesive integrated mold, which meets the requirements of long service life and has better sealing effect.
- 7-inch IPS full-view 16 million true color LCD display with more detailed experimental parameters, adjustable brightness, fully in line with healthy requirements.
- The external USB2.0 interface facilitates system upgrade and experimental data download.
- Two methods, built-in start timing and stable timing, can effectively calculate the centrifugal efficiency.
- Various shutdown music ringtones, with adjustable duration for music and prompt tones, make the experiment more comfortable.
- Equipped with compressor start-stop function, the compressor automatically stops working when the door cover is opened, and the compressor starts again after the door cover is closed, which is more energy-saving and environmentally friendly.
- Built Condensate drain to prevent water accumulation
- Programmable Function, possible in both RPM and RCF
- Safety features like emergency door opening facility on electrical failure, lid locking, auto rotor recognition, rotor imbalance shut off.
- Rotors, buckets, adapters and caps should be autoclavable.

Turning Head Parameters



18R-S Swing Rotor
4500 rpm / 3780 × g



18R-S1.2
Adapter: 100 mL × 8;
4500 rpm / 3710 × g



18R-S1.3
Adapter: 50 mL × 16;
4500 rpm / 3780 × g



18R-S1.4
Adapter: 15 mL × 32;
4500 rpm / 3780 × g



18R S-1 Hanging Cup
250 mL × 4;
4500 rpm / 3780 × g



18R-S1.5
Adapter: 5 mL × 64;
4000 rpm / 2860 × g



18R-S1.6
Adapter: 8/10 mL × 52;
4000 rpm / 2916 × g



18R-S1.7
Adapter: 8/10 mL × 52;
4000 rpm / 2916 × g



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High Speed Refrigerated Centrifuge

HBSMH-18R

Specifications

MODAL	HBSMH-18R
Input Power Supply	AC 220 V / 50–60 Hz
Input Power	850 W
Maximum Capacity	1000 mL (250 mL × 4)
Speed Range	200–18000 rpm, step increase 10 rpm
Speed Accuracy	±20 rpm
Maximum Relative Centrifugal Force	23470 × g / stepwise increase 10 × g
Static Temperature Setting Range	–20°C to +40°C / step increase 0.1°C / display accuracy ±0.1°C / control accuracy ±1°C
Control Temperature at Maximum Load/Maximum Speed	0°C to +40°C / step increase 0.1°C / display accuracy ±0.1°C / control accuracy ±1°C
Drive Motor	Maintenance-free brushless DC variable-frequency motor
Effective Centrifugal Time	1–99 hours / 1–59 minutes / 1–59 seconds; three modes available; accuracy ±1 second with Continuous function
Drive Control System	FOC vector sine-wave drive
Control Method	Multi-touch + physical keys
Stored Programs	30 built-in storage programs / 5 panel shortcut program calls / NORMAL buttons
Display Method	7-inch IPS full-view 16-million-color LCD; for all parameters including temperature, time, speed
Door Cover Locking Method	Electric control automation section type double cover lock
Maximum Acceleration Time	20 s / 9 gears
Maximum Deceleration Time	22 s / 10 gears; 0 gears free stop
Refrigeration Compressor/Refrigerant	Imported SECOP compressor; complies with domestic 3C certification / R134a
Size (L × W × H)	560 × 680 × 376 mm
Weight (without swivel)	95 kg
Noise Level at Maximum Speed	≤58 dB(A)
Protection Level	IP20
Permissible Ambient Temperature/Relative Humidity	+5–40°C / 80%
Interference Suppression Standard	EN 61010-1, EN 61010-2-020, EN 61326-1, EN 61010-3-2/A2



18R S-2 ELISA Plate rotor
Microplate 4pcs×2×96
Deep well plate 2pcs×2×96
4000rpm/2505×g



18R A-12 Angle rotor
15ml×12
6000rpm/5150×g



18R A-13 Angle rotor
15ml×24
6000rpm/5690×g



18R A-14 Angle rotor
50ml×8
6000rpm/5150×g



A-1.1 adapter
0.2ml



18R A-1 Angle rotor
1.5/2ml×12
18000rpm/22530×g



18R A-2 Angle rotor
1.5/2ml×24
16000rpm/23470×g



18R A-3 Angle rotor
1.5/2ml×36
14000rpm/18010×g



18R A-4 Angle rotor
0.5ml×36
15000rpm/16350×g



A-1.2 adapter
0.5ml



18R A-5 Angle rotor
0.2ml×8×4
14800rpm/16200×g



18R A-6 Angle rotor
5ml×12
16000rpm/18890×g



18R A-7 Angle rotor
5ml×10
16000rpm/20665×g



18R A-8 Angle rotor
10ml×12
13000rpm/15315×g



A-10.1 adapter
15ml



18R A-9 Angle rotor
15ml×8
13000rpm/17570×g



18R A-10 Angle rotor
50ml×6
12000rpm/16501×g



18R A-11 Angle rotor
100ml×4
12000rpm/15940×g



A-10.2 adapter
50ml



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