

RWD

High-Speed Refrigerated Centrifuge

Make Your Centrifugation Intelligent

MX30R



Application Scenario

Delivering efficient, reliable, and user-friendly centrifugation solutions for scientific research and bioprocessing

- **Biological Research & Pharmaceutical Development:** From large-volume culture harvesting to high-speed, small-volume protein/antibody purification for complete R&D workflows
- **Cell Biology, Molecular Biology & Proteomics:** Precipitation and separation of proteins, exosomes, nucleic acids (DNA/RNA), and subcellular organelles; density gradient centrifugation.
- **Virology & Nanotechnology:** High-speed pelleting of viruses, viral particles, and nanoparticles using rotors reaching 31,000 rpm.
- **Production Bioprocessing:** Scale-up from research to production for harvest and clarification using large-capacity rotors.
- **Diagnostics & Clinical Biochemistry:** Clinical blood separation with rotors compatible with blood collection tube adapters.

Product Characteristics

Diverse Rotor Options

- **Versatile Rotors:** Horizontal, fixed-angle, and continuous-flow rotors for diverse applications.
- **Carbon Fiber Innovation:** Lightweight, fatigue-resistant, and durable. Achieves $17,000 \times g$ with 6x1000mL loads.
- **High-Strength Titanium:** Supports 8x50mL ($100,000 \times g$) and 6x50mL ($110,000 \times g$) configurations.



Unmatched Safety

- Self-locking and auto-recognition rotors prevent risks from improper installation or misuse.
- A triple-layered, reinforced chamber protects against operational hazards.
- Fixed-angle rotors feature a leak-containment design to secure spilled samples and avoid cross-contamination.
- A optional HEPA filter ensures all exhaust air is purified of aerosols.

Intelligent Control System

- Features both routine centrifugation and ACE integral modes, with ACE technology ensuring consistent results across runs
- Includes a built-in rotor calculator for quick conversion of speed and time between different rotors
- Operates via a durable 7-inch touchscreen that supports gloved use, offering intuitive operation with high clarity in a fully button-free interface
- Supports GMP/GLP compliance with a built-in audit trail and seamless USB export of complete centrifugation data records

Effortless Convenience

- Tool-free, push-button rotor locking enables secure installation and changes within 3 seconds.
- Three door-opening options, including innovative hands-free foot-sensor operation.
- An adaptive vacuum system can engage either pre-centrifugation or after reaching set speed.
- Multi-layer sound insulation ensures quiet operation (<59 dBA) for a peaceful lab environment.



User Management

Account login with password and role-based access control

Parameter Configuration

Quick and intuitive setting of operational parameters

Rapid Pre-cooling

Fast pre-cooling function to enhance centrifugation efficiency

Rotor Identification

Automatic rotor recognition for reduced setup time

Run Status

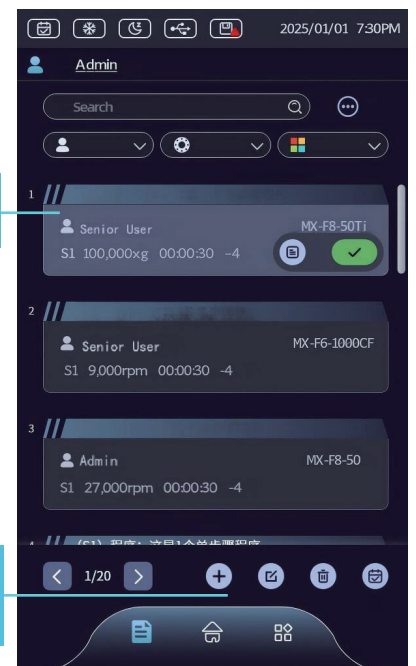
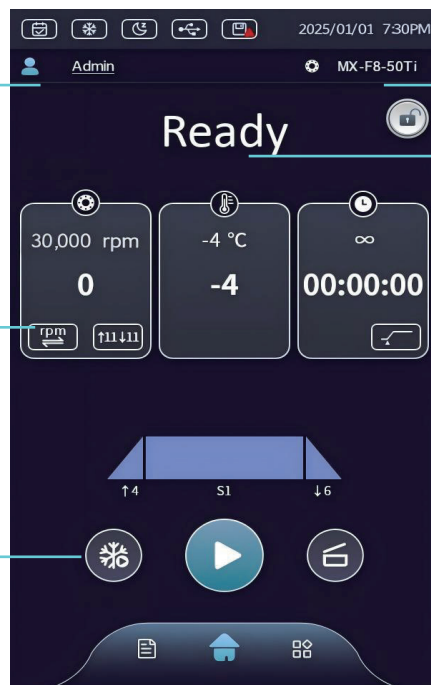
Real-time display of operation status for clear monitoring

Program Setup

Intuitive interface for easy creation and execution of protocols

Program Management

Smart and simplified operation for diverse program management needs



Technical Specifications

Model	MX30R High-Speed Refrigerated Centrifuge
Max. RCF ($\times g$)	110,000 $\times g$ (MX-F6-50Ti)
Max. Speed (rpm)	31,000 rpm
Max. Capacity	6 $\times$ 1000mL (MX-F6-1000CF)
Rotor Recognition	Instant automatic identification
Rotor Locking	Self-locking
Vacuum System	Intelligent vacuum extraction
Display	7-inch full-color touch screen, 800 $\times$ 480px resolution
Temperature Range	-20°C to +40°C
Temperature Accuracy	$\pm 2^{\circ}\text{C}$
Acceleration/Deceleration	12 acceleration / 13 deceleration rate selections
Speed Control Accuracy	± 25 rpm
Program Storage	1000 run programs
Noise Level	<59dB(A)
Dimensions (W $\times$ D $\times$ H)	950mm680mm670mm
Weight (without rotor)	300kg

Order Information

Name	Model	Capacity(mL)	Max Speed (rpm)
High-Speed Refrigerated Centrifuge	MX30R	6*1000	31,000
MX-S4-1000 Swing-out Rotor	MX-S4-1000-P	4*1000	5,500
MX-F6-1000CF Carbon Fiber Rotor	MX-F6-1000CF	6*1000	9,000
MX-F6-50Ti Titanium Alloy Rotor	MX-F6-50Ti	6*50	31,000
MX-F8-50Ti Titanium Alloy Rotor	MX-F8-50Ti	8*50	30,000
MX-F8-50 Aluminum Alloy Rotor	MX-F8-50	8*50	27,000
MX-F6-500CF Carbon Fiber Rotor	MX-F6-500CF	6*50	12,000
MX-F6-100CF Carbon Fiber Rotor	MX-F6-100CF	6*100	23,500
MX-F12-50CF Carbon Fiber Rotor	MX-F12-50CF	12*50	20,000
MX-F48-2CF Carbon Fiber Rotor	MX-F48-2CF	48*2	23,000
MX-CF20 Continuous Flow Rotor	MX-CF20	1350	20,000

RWD Life Science Co.,Ltd

Add: 9, 19-20/F, Building 7A, 9F Building 7D, Shenzhen International Innovation Valley, Dashi 1st Road, Nanshan District, Shenzhen, Guangdong, China

RWD Life Science Inc.

Add: 10410 Corporate Drive, Sugar Land, TX 77478, USA
 service: service@rwdstco.com Tel: 1-858-900-5879 Inquiry: rwd@rwdstco.com After-sales
 Fax: 1-858-939-1580