

tabletop high speed centrifuge with 20000rpm and 4 by 250ml

Tabletop high speed centrifuge is a highly efficient, intelligent and easy-to-operate laboratory equipment for separation and purification of cells, proteins, blood samples and so on.

Tabletop High Speed Centrifuge (20,000rpm, 4×250ml)

High Speed and Large Capacity

1. Maximum speed: 20,000rpm, delivering powerful centrifugal force for efficient separation and purification of complex samples.
2. Capacity: 4 × 250ml, suitable for larger samples, meeting laboratory requirements for both capacity and efficiency.

Intelligent Control System

1. 5 customizable preset programs, accessible via one-key for quick parameter adjustment and improved experimental efficiency.
2. Program storage for 99 groups, enabling rapid switching and recall for diverse experimental scenarios.
3. Electric door lock function with optional automatic chamber opening after centrifugation, increasing safety and convenience.
4. Long-press start and instantaneous centrifugation buttons for fast emergency starts or stops.



Kernel Performance

1. True-color HD LCD large screen for clear, real-time display of centrifugal force, rotational speed, time, and other key parameters.
2. High-end chip and microcomputer control system with direct-drive frequency conversion brushless motor for rapid startup, smooth operation, and extended equipment life.
3. Linear drive system provides 10 acceleration and 10 deceleration settings, adjustable according to sample characteristics.
4. Supports start-up timing and arrival revolution timing for precise experimental control.

Safety and Security

1. Rotor automatic identification system to prevent misoperation and ensure safe centrifugation.
2. Electromagnetic induction door protection and double electronic door lock to prevent accidental opening during operation.
3. Multiple protection functions: overspeed, over-temperature, imbalance, etc., for safe operation in all circumstances.
4. Three-layer all-steel structure with 316 stainless steel centrifugal chamber for excellent corrosion resistance and durability.

Detailed Design & User Experience

1. Random tool rack for convenient storage and access to accessories, reducing loss and clutter.
2. Front-facing SOP guidance chart and video QR code for standardized operation and reduced errors.
3. Quick locking rotor cover shortens operation time and boosts experiment efficiency.
4. Ergonomic low lid height for easy opening/closing and reduced operator fatigue.
5. Special noise reduction system for quiet, comfortable operation and improved work efficiency.

Working Principle

1. High-speed rotation generates centrifugal force: denser material is thrown to the tube bottom, lighter material remains on top—achieving separation.
2. Centrifugal force depends on rotational speed and sample density difference; higher speed yields better separation.
3. Temperature control system maintains sample stability, especially for temperature-sensitive samples.
4. Gradient centrifugation mode: freely set speed/time gradients for multi-step separation of complex samples.

Model	C30
Maximum speed	20000rpm
Maximum RCF	30677xg
maximum capacity	4x250ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 hours 59 minutes
Noise	≤62dB
Rotor Identification	yes
Power supply	230Vac, 50Hz, 10A
Power	750W
Overall dimensions	545x435x400mm
Net weight	57kg