

benchtop high speed centrifuge with 21000rpm and 4 by 750ml

Benchtop high-speed centrifuges use high-speed rotation to generate powerful centrifugal force to separate different components of a sample according to density differences, and are widely used in fields such as cytology, molecular biology, clinical medicine and chemical analysis.

Benchtop High Speed Centrifuge (21,000rpm, 4×750ml)

Separation Capacity

1. Speed: Up to 21,000rpm, providing powerful centrifugal force for efficient separation of tiny components in complex samples.
2. Large capacity: 4 × 750ml, suitable for medium to large volume samples and batch processing.

Intelligent Control System

1. 5 customizable preset programs, accessible with one key, to improve operational efficiency and support batch experiments.
2. 99 program groups of storage for quick switching between experimental conditions.
3. Motorized door lock with optional automatic opening after centrifugation for safer, error-free operation.
4. Long-press start and instant key for rapid or emergency centrifugation.



Optimized Kernel Performance

1. True-color HD LCD screen, 5-inch touch and button dual-operating system, clear operator interface, key info (centrifugal force, speed, time), real-time parameter modifications without downtime.
2. High-end microcomputer control system and direct-drive frequency conversion brushless motor for rapid startup, smooth operation, long service life.
3. 10 speeds of acceleration and 10 speeds of deceleration, adjustable to sample characteristics for best separation effect.
4. Supports start-up timing and arrival speed timing modes for flexible experimental control.

Comprehensive Safety Design

1. Rotor automatic identification system to prevent misoperation and enhance safety.
2. High sensitivity electromagnetic induction door protection and double electronic door latch for secure chamber cover during centrifugation.
3. Multiple protection functions: overspeed, over-temperature, imbalance, etc., for timely abnormality detection and equipment/sample safety.
4. Three-layer all-steel body and environmentally friendly anti-corrosion treated chamber for excellent strength and corrosion resistance.

Humanized Detail Design

1. Random tool holder for ready availability and reduced tool loss.
2. Operation panel with SOP guide chart and video QR code for quick familiarization and standardized operation.
3. Quick locking rotor cover for easy installation/removal and saved experiment time.
4. Ergonomic design with low cover height for easy opening/closing and reduced operator fatigue.
5. Special noise reduction system for a quieter, more comfortable lab environment.

Working Principle

1. Rotation generates increasing centrifugal force; denser materials move to tube bottom, lighter remain on top. Adjustable speed, time, and force enable efficient, density-based stratification and separation.
2. Gradient centrifugation: Custom speed/time gradients for multi-step separation of complex samples.
3. Temperature control system maintains stable sample temperature, preventing damage/deterioration due to heat from high-speed operation.

Model	C40
Maximum speed	21000rpm
Maximum RCF	31060xg
maximum capacity	4x750ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 hours 59 minutes
Noise	≤62dB
Rotor Identification	yes
Power supply	230Vac, 50Hz, 10A
Power	1000W
Overall dimensions	580x465x402mm
Net weight	62kg