

high speed centrifuge with 16500rpm and 6 times 50ml

High-speed centrifuge is a widely used equipment for laboratory sample processing, mainly used for efficient separation of components in samples, suitable for rapid separation of small volume samples.

High Speed Centrifuge (16,500rpm, 6×50ml)

High Rotational Speed and Large Capacity

1. Rotational speed up to 16,500rpm, suitable for a variety of samples requiring high-speed centrifugation for efficient separation.
2. Capacity: 6×50ml, enables simultaneous processing of multiple small samples for improved efficiency.

Intelligent Control System

1. 5 groups of customized preset programs with one-key recall, reducing repeated setup and improving experiment efficiency.
2. Storage for 99 program groups, facilitating quick switching between different experimental conditions.
3. Motorized door lock for automatic chamber door opening after centrifugation, simplifying sample removal.
4. Long-press start/instantaneous key for rapid centrifugation startup in urgent scenarios.



Kernel Performance

1. 5-inch high-definition LCD touch display, showing real-time centrifugal force, speed, time, and other parameters for easy monitoring and adjustment.
2. High-end microcomputer control system and direct-drive frequency conversion brushless motor, enabling fast startup and smooth long-term operation.
3. Linear drive system with 10 speeds of acceleration/deceleration for optimized sample separation.
4. Start timing and arrival speed timing modes for precise control of the centrifugation process.

Safety and Protection

1. Rotor automatic identification system to prevent misoperation and enhance safety.
2. Ultra-high sensitivity electromagnetic induction door protection and double electronic door lock design for safe chamber cover during centrifugation.
3. Multiple warning protection functions: overspeed, over-temperature, imbalance, etc., ensuring safe operation.
4. Three-layer all-steel body and anti-corrosion treated centrifugal cavity for durability and long-term stable operation.

Humanized Design

1. Random tool rack for orderly tool storage and immediate availability.
2. Operation SOP guide chart on the front for standardized, error-reducing use.
3. Quick locking rotor cover for easy operation.
4. Ergonomic design with low opening height for effortless lid closing and reduced operator fatigue.
5. Special noise reduction system for a quieter, more comfortable environment.

Working Principle

1. Generates strong centrifugal force by high-speed rotation, separating components by density; heavier substances settle to the bottom, lighter float to the top.
2. Centrifugal force is determined by rotational speed; higher speeds yield stronger force and more effective separation.
3. Although not specified, high-speed centrifuges typically feature refrigeration systems to prevent sample degradation due to heat during operation.

Application Areas

1. Biology and medical research: Separation and purification of cells, proteins, DNA/RNA; used for blood separation, cell culture, histological research.
2. Clinical testing: Processing blood, urine, etc. for serum/plasma separation, cell extraction and analysis to aid diagnosis.
3. Chemical and pharmaceutical industry: Drug purification, separation of chemical reaction products, extraction of active ingredients, quality control.
4. Environmental monitoring: Water, soil, and other sample analysis by separating impurities/pollutants to identify harmful substances.
5. Food and cosmetic industry: Ingredient analysis, extraction, and quality control; separation/purification of cosmetic raw materials for quality and safety.

Model	C10
Maximum speed	16500rpm
Maximum RCF	26145xg
maximum capacity	6x50ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 hours 59 minutes
Noise	≤62dB
Rotor Identification	yes
Power supply	230Vac, 50Hz, 10A
Power	500W
Overall dimensions	480x360x330mm
Net weight	38kg