

tabletop high speed refrigerated centrifuge with 4 by 100ml

Tabletop high speed refrigerated centrifuge through the compressor refrigeration temperature control samples, high-speed rotation produces a strong centrifugal force, so that the samples of different densities of substances in the centrifugal process of stratification and sedimentation.

Tabletop High Speed Refrigerated Centrifuge

High Rotational Speed and Large Capacity

1. Rotational speed up to 18,000rpm, suitable for experiments requiring high efficiency separation.
2. Volume: 4x100ml, capable of handling larger sample volumes for large-scale experiments.
3. Temperature control range: -20°C to 40°C, meeting the demands of temperature-sensitive samples.

Intelligent Control System

1. Operation interface with 5 groups of customized preset programs and storage for 1000 programs, enabling quick access and operation for experimental personnel, reducing repeated setup time.



2. Supports electric door lock design for optional automatic chamber door opening after centrifugation, enhancing convenience.
3. Long-press start button and instant centrifugation function for rapid experiment initiation.
4. Linear drive system with 10 speeds of acceleration and deceleration adjustment, optimizing separation for different sample characteristics.
5. Gradient centrifugation function with 1 to 10 gradient speed and time settings, suitable for complex, multi-step sample separation.

Kernel Performance

1. High-definition true-color LCD touch screen for intuitive display of centrifugal force, speed, time, and other key information. Simple operation and real-time adjustment for optimal experiment management.
2. Microcomputer control system and direct-drive frequency conversion brushless motor for rapid start, smooth operation, and extended equipment lifespan.
3. Insulation process ensures effective refrigeration, prevents refrigerant loss, and stabilizes temperature control throughout operation.

Safety and Protection Functions

1. Rotor automatic identification system to prevent misoperation and enhance user safety.

2. Electromagnetic induction door protection and double electronic door latch design for secure door cover operation.
3. Built-in overspeed, over-temperature, imbalance, and other multiple safety protection functions for equipment and personnel safety.
4. Three-layer all-steel body and environmentally friendly anti-corrosion treatment in the centrifugal chamber, suitable for various experimental environments.
5. Rotor and rotor cover autoclavable for high hygiene applications.

Humanized Design and Optimization

1. Random tool rack design for convenient tool storage and equipment cleanliness.
2. Operating SOP instruction chart on the front to support standardized procedures and reduce misuse.
3. Quick locking rotor cover for easier and faster operation.
4. Ergonomic low opening height for comfortable operation and reduced hand fatigue.
5. Special noise reduction design for a quieter, more comfortable experimental environment.

Principle

1. Generates strong centrifugal force at high speed, stratifying and depositing sample components based on density. Heavier substances settle to the bottom, lighter substances float up, achieving effective separation.
2. Centrifugal force principle: Outward force generated by rotation divides samples into different density layers for rapid and effective separation.
3. Temperature control and refrigeration system: Maintains low temperature during centrifugation, preventing sample damage or spoilage. Special insulation ensures temperature stability throughout operation.

Application Areas

1. Biology and medical research: Widely used in molecular biology, cell biology, genetic engineering for serum extraction, DNA/RNA purification, cell separation, etc.
2. Clinical testing: Processing blood, urine, body fluids for component analysis, cell and plasma separation.
3. Pharmaceutical and chemical industry: Purification and separation in drug R&D, and component extraction/analysis in chemical reactions.
4. Environmental monitoring: Water, soil, and environmental sample testing for impurity removal and pure sample acquisition.
5. Food and cosmetic industry: Extraction of active ingredients in food and cosmetics, purification of cosmetic active components.

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Model	C10R
Maximum speed	18000rpm
Maximum RCF	31115xg
maximum capacity	4x100ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 hours 59 minutes 59 seconds
Temperature setting range	-20°C to 40°C
Temperature Accuracy	±1.0°C
Noise	≤60dB
Rotor Identification	yes
Power supply	230Vac, 50Hz, 15A
Power	1200W

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Model	C10R
Overall dimensions	610x560x370mm
Net weight	73kg