

Low speed centrifuge with 6500rpm and 4 units of 250ml

Low speed centrifuge in clinical medicine, basic scientific research or food testing, can meet the user's needs for accurate separation, convenient operation, safety and stability, widely used in clinical experiments, molecular biology, cytology and other fields.

Low Speed Centrifuge

Features

1. High-efficiency speed and capacity: the speed reaches 6500rpm, which is suitable for most of clinical and research experiments. The rotary head can hold 4 250ml, which can handle multiple samples at the same time and improve the experimental efficiency.
2. Intelligent control system: Equipped with humanized operation interface, 5 groups of custom preset programs can be called by one key, easy to operate. Extra large storage space, can store 99 program groups, users can easily select and call different experimental configurations.
3. Motorized door lock and instantaneous centrifugation function: with motorized door lock function, the user can choose to automatically open the chamber door after centrifugation to enhance the convenience of operation. Long press the start button can realize instant centrifugation, rapid processing of samples.



4. Kernel performance and display system: equipped with 7-inch true-color high-definition touch LCD display, supporting dual operating systems – touch screen and keys, intuitively display speed, centrifugal force, time and other important parameters. The centrifugal parameters can be modified at any time during operation without stopping the machine, which enhances the flexibility of the experiment.
5. High-end drive system and acceleration and deceleration control: equipped with direct-drive frequency conversion brushless motor, rapid start, smooth operation and long life. It provides 10 speeds of acceleration and 10 speeds of deceleration, which can accurately control the separation process according to the different properties of the samples.
6. Multiple safety protection functions: Equipped with various protection functions such as overspeed, unbalance, overcurrent, rotor failure, etc. to ensure the safety of the equipment. Adopt rotor automatic identification system, effectively prevent damage or safety accidents caused by improper operation.
7. High quality and corrosion-resistant design: the body is made of three-layer all-steel structure to ensure that the equipment is sturdy and durable. The inner cavity is made of 316L stainless steel, with good corrosion resistance, suitable for a variety of chemical media and experimental environment.
8. Noise reduction and ergonomic design: equipped with a special noise reduction system to reduce the noise during operation, providing a more comfortable working environment for laboratory personnel. Ergonomic design, low opening height, convenient and easy to operate.

Working Principle

1. The low speed centrifuge generates a strong centrifugal force by rotating the rotor at high speed to separate the substances in the sample. The centrifugal force causes the heavier substances to settle towards the bottom of the tube and the lighter substances to move towards the upper layer. By adjusting the parameters such as rotational speed, time, acceleration and deceleration curves, the experimenter can precisely control the sample separation effect.
2. The equipment is equipped with a microcomputer control system, which can display and modify the operating parameters in real time to ensure the stability and efficiency of the centrifugation process. In addition, the equipment has the function of automatic identification of rotor to avoid equipment damage caused by wrong operation.

Application Fields

1. Clinical medicine: In hematology, microbiology and other clinical experiments, it is used for serum, plasma separation, cell analysis, bacterial culture, etc., which helps doctors to quickly obtain the separated samples needed for diagnosis.
2. Molecular biology and genetics research: for DNA, RNA, protein extraction and purification, widely used in genomics, proteomics and other fields of scientific research.
3. Cytology and cell separation: in cytology research, Low speed centrifuges are used for separation of cell components, separation of cell cultures and cell cycle analysis.

4. Food and environmental science: In food quality testing, it is used to extract and separate harmful components or nutrients in samples. meanwhile, in environmental monitoring, it is used for processing and analyzing water quality and soil samples.
5. Drug research and development and pharmaceutical industry: in the process of drug separation and purification, used for extraction, concentration, separation of drug components, to enhance the efficiency and precision of the experiment.

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Model	CL20
Maximum speed	6500rpm
Maximum RCF	5091xg
maximum capacity	4x250ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 hours 59 minutes 59 seconds
Noise	≤62dB
Rotor Identification	yes

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Model	CL20
Power supply	230Vac, 50Hz, 10A
Power	550W
Overall dimensions	430x540x355mm
Net weight	45kg