Low speed table centrifuge with 6500rpm and 4 by 750ml

Low-speed benchtop centrifuge is a kind of high-efficiency and intelligent laboratory equipment, which is widely used in medicine, life science, chemical analysis and other scientific research fields.

Large Capacity Low Speed Benchtop Centrifuge

Features

1. High speed and large capacity: 6500rpm, suitable for a variety of centrifugation experimental needs. The capacity of the rotor head can be up to four 750ml, which can handle multiple large-capacity samples at the same time to meet the needs of large-scale sample centrifugation.
2. Intelligent control system: the device is equipped with 5 groups of customized preset programs that can be called up by one key, so that users can switch quickly and simplify the operation process. Large storage space, can store 99 program groups, convenient to call different experimental settings at any time. Motorized door lock design supports automatic opening of the chamber door after centrifugation, which is convenient for operators to take samples.

3. Acceleration and deceleration function: provide 10 speeds of acceleration and deceleration control, users can choose the appropriate acceleration and deceleration modes according to the properties of the samples to ensure the separation effect. It can realize the conversion and setting between rotational speed (rpm) and centrifugal force (RCF) to ensure the high efficiency and accuracy of the experiment.
4. Display and operation interface: equipped with 7-inch true-color high-definition LCD display, and provide touch screen and key type dual operation mode, intuitive display, easy to operate. Centrifugal force, speed, time and other important parameters can be synchronized with the real-time display, and the parameters can be adjusted at any time during operation without stopping.
5. Instantaneous centrifugation function: equipped with long-press start and instantaneous centrifugation function, applicable to the needs of rapid sample processing.
6. Safety protection system: rotor automatic identification system, can be adjusted according to different rotors to prevent misuse. With electronically controlled door and double electronic door lock design to ensure the safety locking of the door cover during centrifugal operation. Equipped with multiple protection functions such as overspeed, over-temperature, unbalance, etc., effectively guaranteeing the safety of equipment and experimental personnel.
7. High-quality materials and structure: the use of three-layer high-quality steel structure to ensure the stability and durability of the equipment. The inner cavity is treated with environmentally friendly anti-corrosion process, acid and alkali corrosion resistance, to adapt to different experimental environments.

8. Noise reduction and humanized design: equipped with a special noise reduction system to reduce operating noise and provide a more comfortable experimental environment. Humanized design, low opening height, easy to operate, ergonomic, reduce operational fatigue.

Working Principle

1. Low-speed benchtop centrifuge through the motor-driven rotor rotating at high speed, the resulting centrifugal force makes the components in the sample according to the density difference separation. The heavier substances will be precipitated to the bottom of the tube under the centrifugal force, while the lighter substances will stay in the upper layer. The equipment ensures the separation of the samples by precisely controlling parameters such as rotational speed, centrifugal force, acceleration and deceleration curves.
2. With the help of the intelligent control system, the operator can monitor the operation status in real time and adjust the centrifugal parameters to ensure the stability and efficiency of the experimental process. In addition, the equipment's rotor automatic identification and multiple safety protection system effectively avoids the risks caused by improper operation and guarantees the long-term stable operation of the equipment.

Application Areas

1. Clinical medicine: In clinical laboratories, it is used to separate serum, plasma, cells and other samples, which are widely used in the research and testing of hematology, microbiology and immunology. It is also used for extracting and separating related components in new drug development and vaccine research.

2. Bioscience and molecular biology: It is used for the extraction and purification of DNA, RNA, and protein, and is widely used in genomics, proteomics, cell biology and other fields. It is suitable for cell separation, cell culture, cell cycle analysis and other biological experiments.
3. Environmental science: in environmental monitoring, it is used for the processing and analysis of water quality, soil and other samples to detect pollutants and other components. It can be used to analyze particulate matter and chemical pollutants in air samples to help environmental monitoring and governance.
4. Pharmaceutical and chemical research: In drug research and development and production, it is widely used in the extraction, concentration, separation of drug components and other experiments. It is used for separation and purification after chemical reaction, and is applied in the fields of synthetic chemistry and material science.
5. Food and agricultural testing: used for extraction and separation of components in food testing, such as oil and grease separation, enzymatic reaction analysis. In the field of agriculture, it is used to study the separation and analysis of soil samples and plant extracts.
6. Education and scientific research: as a standing equipment in the laboratories of colleges and universities, scientific research institutions, to support basic scientific research and teaching experiments in the field of biology, chemistry and other disciplines.

Model	**CL30**
Maximum speed	6500rpm
Maximum RCF	5091xg
maximum capacity	4x750ml
Rotation Speed Accuracy	±10rpm
Timer	1 minute to 99 minutes
Noise	≤65dB
Rotor Identification	yes
Power supply	230Vac, 50Hz, 15A
Power	800W
Overall dimensions	680x620x400mm
Net weight	100kg