

benchtop low speed refrigerated centrifuge with 4 by 750ml

Benchtop low speed refrigerated centrifuge is a laboratory equipment that integrates low-speed centrifugation and precise cooling, specialized in the processing of temperature-sensitive samples.

Benchtop Low Speed Refrigerated Centrifuge

Benchtop low speed refrigerated centrifuge has efficient freezing function and multiple safety protection mechanisms, it is widely used in biomedical research, cytology, genomics and other fields. Benchtop low speed refrigerated centrifuge with high efficient separation performance and reliable temperature control function ensures that the samples are kept in good condition during centrifugation, and it is widely used in many fields such as clinical, scientific research, pharmaceutical and environmental monitoring.

Features

1. High-efficiency Separation and Large Capacity Design: 5500rpm, suitable for a variety of low-speed centrifugation needs, and performs well in experiments such as cell separation and blood sample processing. It is equipped with four 750ml large-capacity rotary heads, which can handle multiple samples at the same time, and is suitable for experiments that need to handle large-volume samples.



2. Intelligent control system: Provide 99 program groups storage space, support program group shortcut keys, can quickly call different experimental settings, improve the operation efficiency. Equipped with electric door lock, the chamber door can be opened automatically after centrifugation to avoid the inconvenience caused by human operation. Support long-press start and instantaneous centrifugation function, to meet the special needs of rapid sample processing.
3. Accurate acceleration and deceleration control: the linear drive system supports 10 speeds of acceleration and 10 speeds of deceleration control, users can adjust the acceleration and deceleration according to the different characteristics of the samples, to ensure the separation effect of the samples.
4. High-definition display and convenient operation: 7-inch true-color high-definition LCD display, clear and intuitive interface, real-time display of rotational speed, centrifugal force, time and other data, and in the process of operation, the user can modify the parameters at any time without stopping. The equipment adopts high-end chip and microcomputer control, equipped with direct-drive frequency conversion brushless motor, fast and smooth start, long service life.
5. Optimized cooling and insulation design: special internal insulation process greatly improves the cooling efficiency, effectively prevent the loss of refrigerant, to ensure temperature stability during centrifugation, to avoid the impact of temperature fluctuations on the sample.

6. Multiple safety protection: Equipped with rotor automatic identification system, it can effectively prevent the safety problems caused by wrong operation. With ultra-high sensitivity electromagnetic induction door protection and double electronic door lock design, to ensure that the door cover is locked safely. at the same time with overspeed, over-temperature, imbalance and other multiple protection functions, to protect the stable operation of the equipment.
7. Energy saving and environmental protection: with ECO automatic standby function, when the equipment is not in use for 8 hours automatically standby, reduce unnecessary energy consumption, extend the service life of the compressor, in line with modern environmental protection and energy saving requirements.
8. Humanized design and comfortable environment: equipped with a random tool rack to ensure that the tools are readily available to enhance the efficiency of the laboratory. The front of the body is designed with standard operating procedures (SOP) guide chart, so that the operator can be more simple and standardized use of equipment. The rotor cover is designed as a quick-locking type, which facilitates quick operation and ensures the safety of the equipment at the same time. Ergonomic design, low opening height, easy to operate, reduce fatigue caused by long time operation. Noise reduction system effectively reduces operating noise, providing a quiet and comfortable experimental environment.

Working Principle

1. The core working principle of the benchtop low speed refrigerated centrifuge is to use the centrifugal force generated by high-speed rotation to separate the sample. The centrifugal force that the sample is subjected to during the high-speed rotation of the rotor will stratify the components of different densities, with heavier substances settling to the bottom and lighter substances remaining in the upper layer. Through precise control of parameters such as rotational speed, centrifugal force and time, the equipment can precisely separate different components.
2. The freezing function ensures that the samples are kept at a low temperature during centrifugation, thus avoiding degradation or inactivation of the samples due to temperature increase. Through the efficient refrigeration system, the equipment can quickly cool down and maintain a stable temperature to ensure the cooling effect of the sample during the centrifugation process.
3. The intelligent control system makes the equipment in the centrifugation process can be real-time monitoring and adjustment of relevant parameters, the user can easily set and adjust, without stopping, greatly improving the flexibility and efficiency of the experiment.

benchtop low speed refrigerated centrifuge with 4 by 750ml

Model	CL20R
Maximum speed	5500rpm
Maximum RCF	5952xg
maximum capacity	4x750ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 hours 59 minutes
Temperature setting range	-20°C to 40°C
Temperature Accuracy	±1.0°C
Noise	≤60dB
Rotor Identification	yes
Power supply	230Vac, 50Hz, 15A
Power	1500W

benchtop low speed refrigerated centrifuge with 4 by 750ml

Model	CL20R
Overall dimensions	660x730x445mm
Net weight	123kg