

Low speed centrifuge with temperature from 15°C to 25°C

Low-speed constant temperature centrifuge adopts advanced technology design, which can carry out centrifugal separation under strict temperature control conditions to ensure the separation effect of samples and the accuracy of experiments.

Low Speed Thermostatic Centrifuge

Features

1. Rotation speed and capacity: the rotation speed is up to 6500 rpm, which can meet a variety of experimental needs. Capacity of four 750 ml large-capacity rotary head, can handle multiple samples at the same time, improve the efficiency of the experiment.
2. Thermostatic control: precision thermostatic design, temperature control range can be adjusted between 15 °C and 25 °C, to ensure that the sample centrifugation, to prevent temperature fluctuations on the experimental results of interference.
3. Operation interface: equipped with 7-inch high-definition LCD touch screen, easy to operate, real-time display of speed, temperature and other parameters. Multi-function independent knob and Home button, users can quickly set and adjust.



4. Safety features: equipped with a password lock function to prevent misuse and ensure the safety of the experiment. The safety system includes door cover protection, overspeed protection, over-temperature protection, unbalance protection, etc., to ensure that the equipment can operate safely under any circumstances.
5. Control system: linear drive, support 10 acceleration, deceleration control, the user can choose the appropriate acceleration and deceleration gears according to the characteristics of the sample to ensure the separation effect. The curve of rotational speed, centrifugal force and temperature is displayed on the same screen, and the centrifugal force is automatically converted, and the relationship between changes is clearly visible.
6. Storage and programming: up to 99 program groups can be stored to meet the needs of different experimental conditions. Record 99 operation history and fault log, convenient for data tracing and fault diagnosis.
7. Personalized settings: provide two timing modes: start timing and arrival speed timing, to meet different experimental needs. It can choose 15 kinds of lifting speed curves and allow users to customize the differential gradient centrifugal curve.
8. High-efficiency drive and low noise: Equipped with large torque frequency conversion motor, maintenance-free, low noise and vibration during operation, enhancing the comfort of the working environment.
9. Sealing and identification system: adopting food-grade silicone sealing ring to ensure good sealing performance and avoid leakage. Magnetic rotor full-automatic identification system, can automatically identify different capacity rotor head and speed, enhance the safety of centrifugal process.

Working Principle

Low Speed Thermostatic Centrifuge utilizes centrifugal force to separate substances in the sample. By rotating the rotor head, the centrifugal force generated during the high-speed rotation of the sample forces the heavier substances to settle to the bottom of the tube, while the lighter substances are pushed to the wall of the tube to achieve the separation effect. The temperature control system ensures that the temperature during the centrifugation process is kept within the set range, avoiding the impact on the samples due to temperature changes.

Application Areas

1. Biomedical research: used in cell culture, protein extraction, DNA/RNA isolation and other experiments, suitable for experiments that require strict temperature control.
2. Chemical analysis: widely used in chemical reagent separation, solution concentration and other processes.
3. Food industry: used for separation and extraction of food components, such as oil, protein, sugar, etc..
4. Environmental science: it can be used for separation work in water quality testing, soil sample analysis and other fields.
5. Pharmaceutical industry: used for the separation and purification of drug components in the process of drug research and development and production.

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Model	CL40M
Maximum speed	6500rpm
Maximum RCF	5091xg
maximum capacity	4x750ml
Rotation Speed Accuracy	±10rpm
Timer	1 minute to 99 minutes
Temperature setting range	15°C to 25°C
Temperature Accuracy	±1.0°C
Noise	≤65dB
Rotor Identification	yes
Power supply	230Vac, 50Hz, 15A
Power	800W

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Model	CL40M
Overall dimensions	680x620x400mm
Net weight	100kg