mini centrifuge with hematocrit and pcr strips rotors

The minicentrifuge is characterized by its streamlined shape, compact and robust construction, and ease of operation. It is used to handle microtube filtration, rapid centrifugation, micro blood cell separation, microbial sample processing, PCR experiments and so on.

Mini Centrifuge

Main Features

1. Safety lock design: Stops rotation instantly when lid opens—prevents accidents during operation.
2. Automatic door opening: Press-to-open for quick sample retrieval—boosts efficiency.
3. Point movement control: Precise start/stop regulation for sensitive experiments.
4. RPM/RCF display switch: Monitor speed and relative centrifugal force in real time—ensures consistency.
5. Adjustable timing: Set from 1 second to 999 minutes for precise experimental protocols.

6. Multi-function rotor support: Compatible with various microcentrifuge and row tubes—flexible sample processing.
7. LCD display: Intuitive operation, clear time/speed readout—reduces user errors.
8. Double centrifugation capacity: Higher throughput than traditional models—process more samples simultaneously.
9. Adjustable speed: 1000rpm–12,000rpm—adapts to diverse separation requirements.

Advantages

1. High safety: Multiple safety features (lid stop, auto door) for secure operation.
2. Easy to operate: LCD display, auto door, and intuitive controls—suitable for all experience levels.
3. Diversified applications: Supports various rotor types for broad experimental needs in molecular biology and medicine.
4. High efficiency: Up to 12,000rpm—accelerates centrifugation, saves time.

Working Principle

High-speed rotation generates centrifugal force, separating sample components by density. Heavier substances migrate to tube walls, lighter ones remain central. Precise speed/timing control and rotor versatility ensure effective sample separation for various volumes and forms.

Application Fields

1. Medical labs: Blood analysis, cell separation, micro blood sample processing.
2. Biological research: DNA, RNA, protein extraction and separation.
3. PCR experiments: Sample partitioning for accurate analysis.
4. Microbiology: Separation of bacterial, viral, and other microbial components.
5. Agriculture/food testing: Sample separation for quality control and analysis.

Rotor Types

- Multi-Rotor: 12 × 1.5/2.0ml, 8 × 0.2/0.5ml, 4 × PCR tubes—multi-sample compatibility.
- PCR Strips-Rotor: 12 × 0.2/0.5ml PCR tubes—zonal centrifugation.
- HCT-Rotor: 12 × 40mm capillaries—for hematology samples.
- EP5ml-Rotor: Eppendorf 5ml tubes—larger volume sample handling.
- COMBI-Rotor: 3ml/5ml vacuum tubes, 1.5ml/2.0ml round rotor—multi-volume flexibility.

Model	C12-1	C12-2
Speed range	1000rpm to 7000rpm	1000rpm to 12000rpm
Speed accuracy	±10rpm	
Capacity	12x1.5ml, 12x2.0ml, 4xPCR strips, 4x8x0.2ml, 4xPCR strips, 4x12x0.2ml, 4x5ml, capillary tube	
Timer	1 to 999minutes or continuously	
Motor type	brushless dc motor	
Display screen	LCD	
Safety	safety lid-lock, imbalance system	
Power supply	100Vac to 250Vac,50-60Hz, 30W	
Dimensions	195x230x120mm	
Weight	2kg	