

mini benchtop high speed centrifuge for purification

Mini benchtop high-speed centrifuge is a small laboratory centrifuge equipment that combines high performance and convenience, designed for high-speed separation of small and medium-volume samples.

Mini Benchtop High Speed Centrifuge

Main Features

1. Compact appearance: Space-saving design—ideal for benchtop operation.
2. High speed capability: Up to 14,500rpm and 14,100×g—suitable for demanding protocols.
3. Fast response: Less than 13 seconds from start to full speed or from high speed to stop—maximizes throughput.
4. Intelligent control: Intuitive digital display for simple, clear operation.
5. Excellent noise control: Near-silent operation—optimizes lab environment.
6. High-strength rotor: Durable metal rotor, autoclavable at 121°C for 20 minutes—supports repeated use and sterility.



7. Versatile rotor adaptation: Supports 1.5ml, 2ml centrifuge tubes, 0.2ml/0.5ml PCR tubes—flexible for different experiments.
8. Automatic lid opening: Lid pops open after centrifugation—quick and easy sample access.
9. Certified safety: Meets IEC 1010-2-020 international safety standards—protects users.
10. Strong corrosion resistance: Rotor and lid resist chemicals—safe for diverse sample types.

Advantages

1. Lightweight & flexible: Compact desktop design—fits small lab spaces.
2. Time-saving: Ultra-fast acceleration/deceleration—enhances experimental efficiency.
3. Low-temperature protection: Efficient airflow exchange minimizes heat—protects sensitive samples (enzymes, RNA, etc.).
4. Minimal maintenance: Maintenance-free motor—long service life, low routine upkeep.
5. Economical: Affordable compared to large centrifuges—ideal for small/medium labs.

Working Principle

High-speed rotation generates centrifugal force, separating sample components by density. Denser particles/cells migrate to tube bottom; supernatant remains above. Optimized airflow reduces heat buildup, maintaining sample integrity.

Application Areas

1. Molecular biology: DNA/RNA extraction, PCR cleanup, gel recovery.
2. Clinical testing: Serum, plasma, urine separation.
3. Biopharmaceuticals: Protein precipitation, virus isolation, small-volume vaccine prep.
4. Cytology: Cell collection/washing, organelle separation.
5. Environmental science: Particle enrichment, water sample analysis.
6. Chemical analysis: Separation/removal of suspended particles in solutions.



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Model	C14
Speed range	800rpm to 14500rpm
Speed accuracy	±100rpm
relative centrifugal force	14100xg
Capacity	12x1.5ml, 12x2.0ml, 0.2ml PCR, 0.5ml PCR
Timer	15seconds to 99minutes or continuously
Motor type	brushless dc motor
Display screen	LCD
Safety	safety lid-lock, imbalance system
Acceleration	13 seconds
deceleration	128 seconds
Power supply	230Vac,50Hz, 60Hz or 110Vac, 60Hz

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Model	C14
Dimensions	260x260x150mm
Weight	4.3kg