

automatic cap removal centrifuge for 96 blood tubes

Automatic cap removal centrifuge is suitable for processing samples in vacuum blood collection tubes with multiple functions such as constant temperature, automatic decapitation and sterilization.

automatic cap removal centrifuge

The automatic decapitation centrifuge is designed for high-standard biosafety environments in medical, laboratory, and biological research settings. It features advanced temperature control, UV sterilization, and biosafety mechanisms to ensure safe, efficient, and contamination-free sample processing. Manufactured to international certification standards, it is suitable for both clinical and research applications worldwide.

Main Features

1. Constant temperature fully sealed design (15°C to 25°C): Ensures samples remain stable and unaffected by temperature fluctuations; sealed structure blocks aerosol spread for biosafety.
2. UV sterilization device: Independent UV chamber sterilizes after each run, killing bacteria and viruses, ensuring sample and environmental sterility.



3. Decap rotor & biosafety cover: Hanging cup design and airtight biosafety cap provide double protection against cross-infection; 99.9% decap success rate for vacuum blood collection tubes.
4. High-efficiency separation: Simultaneous processing of 2ml, 3ml, 5ml, and 7ml blood collection tubes; fast and stable separation for multiple tube specifications.
5. High-strength all-steel body & soundproof design: Three-layer protection for instrument stability and personnel safety; double-layer sound insulation for quieter operation.
6. LED digital display & intuitive controls: Real-time display and adjustment of set and operating parameters; user-friendly panel for improved operating experience.
7. Lifting speed adjustment & soft brake: 10 acceleration settings and 9 stepless soft brake options prevent sample re-suspension and protect separation accuracy.
8. Multiple safety protections: Electronic door lock, overspeed, overtemperature, and imbalance monitoring ensure safe operation for both samples and equipment.
9. International certifications: CE, ISO9001:2015, and ISO13485:2016 certified for global quality and safety.

Working Principle

1. High-speed centrifugal force separates sample components by density; precise control and biosafety features ensure optimal separation and sample integrity.
2. Temperature control system maintains accurate sample conditions, crucial for temperature-sensitive specimens.

3. UV sterilization device automatically activates after each run, destroying DNA/RNA of microorganisms for sterility.

Application Areas

1. Medical & Clinical Laboratory: Blood serum/plasma/cell separation, sample processing, reduced cross-infection risk and operator workload.
2. Biological Research: Separation of cellular components, protein/nucleic acid extraction; used in genomics, proteomics, and cell culture.
3. Drug Research & Production: Drug separation, purification, and vaccine development; ensures high purity and sterility for pharmaceuticals.
4. Environmental Monitoring: Water/soil/microbial analysis, pollutant and microorganism sample handling for safe, efficient testing.
5. Food & Cosmetics Industry: Extraction and analysis of juices, oils, active ingredients; improves product quality and stability.

automatic cap removal centrifuge for 96 blood tubes

Model	CG10
Maximum speed	4000rpm

automatic cap removal centrifuge for 96 blood tubes

Model	CG10
Maximum RCF	3120xg
maximum capacity	96 Vacuum Blood Collection Tubes
Rotation Speed Accuracy	±10rpm
Temperature setting range	15°C to 25°C
Temperature Accuracy	±1.0°C
Timer	0 to 99 minutes
Noise	≤60dB
Power supply	230Vac, 50Hz, 10A
Overall dimensions	645x700x445mm
Net weight	90kg