

automatic decapping centrifuge with refrigerated function

The automatic decapping centrifuge can complete the automatic decap operation of vacuum blood collection tubes, completely solving the low efficiency of manual decap process, which may lead to the risk of blood remixing and bacterial cross-infection.

Automatic Decapping Centrifuge

The automatic decapping centrifuge is engineered for safe, efficient, and reliable sample processing in laboratory and clinical environments. Combining advanced decapping technology with high-efficiency separation, it streamlines blood sample handling while minimizing contamination risks and operational errors.

Features

1. **High-efficiency decap design:** Up to 95% decap success rate; automatic decapping minimizes blood contamination and cross-infection, reducing manual errors.
2. **Multi-size compatibility:** Supports 3ml, 5ml, 7ml, and other blood tube specifications without adapter changes, enhancing device versatility.
3. **High-precision operation:** Colorful LED display provides real-time speed, force, temperature, time; parameters can be modified mid-operation. Separate RCF and speed setting for accurate, flexible separation.



4. **Flexible acceleration/deceleration control:** 10 acceleration/deceleration speeds, 9 free stop modes, up to 540s stopping time for gentle rotor stop and prevention of sample re-suspension.
5. **High security design:** High-sensitivity electronic door lock prevents opening during operation; durable internal steel structure resists corrosion and enhances safety.

Working Principle

1. **Centrifugal separation:** High-speed rotation stratifies components by density; blood cells concentrate at the tube bottom, plasma at the top or wall.
2. **Automatic cap removal:** Special rotor and automated mechanism remove tube caps mechanically/pneumatically, ensuring high efficiency and reducing manual errors/cross-infection.
3. **Acceleration/deceleration adjustment:** 10-speed control and gentle stop modes optimize separation for various sample types and prevent secondary resuspension.

Application Areas

1. **Hospitals & Blood Stations:** Efficient blood sample processing, reducing manual time and risk, improving separation precision.
2. **Radioimmunology & Nuclear Medicine:** Precise extraction of serum, plasma for advanced medical research and diagnostics.

3. **Scientific & Biomedical Research:** Blood, tissue, and biological sample separation for molecular, cytology, and biomedical studies.
4. **Clinical & Medical Testing:** Widely used in hematology, immunology, and clinical blood separation for pure, safe samples.
5. **Biological Products & Vaccine Production:** Efficient separation for production environments, ensuring sample quality and health standards.

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Model	CG20	CG20R
Maximum speed	4000rpm	
Maximum RCF	3580xg	
maximum capacity	96 tubes and 100 tubes	
Rotation Speed Accuracy	±10rpm	
Temperature setting range	no	-20°C to +40°C

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Model	CG20	CG20R
Temperature Accuracy	no	±1.0°C
Timer	1 minute to 99 minutes	
Centrifugal chamber diameter	420mm	
Noise	≤65dB	
Power supply	230Vac, 50Hz, 10A	230Vac, 50Hz, 15A
Power	750W	1500W
Overall dimensions	560x460x400mm	645x700x445mm
Net weight	50kg	95kg