

automatic tube cap decapper centrifuge with 4 by 750ml

Automatic tube cap decapper centrifuge not only improves the efficiency of blood collection tube separation, but also effectively reduces the error and infection risk brought by manual operation.

Automatic Tube Cap Decapper Centrifuge

The automatic tube cap decapper centrifuge merges high-efficiency decap technology with intelligent control and safety systems. Designed for hospitals, blood stations, clinical labs, research institutes, and vaccine production, it delivers reliable, fast, and safe blood sample processing.

Main Features

1. High-efficiency decap technology: >99% success rate, compatible with 2ml–7ml vacuum blood collection tubes, supports decap and non-decap modes, adaptable for various tube specifications.
2. Intelligent control system: Colorful LED display panel with intuitive interface; simultaneous display of RCF, speed, time. Freely switch speed/RCF settings with real-time calculation and adjustment.
3. High-performance drive: Microcomputer control with large-torque frequency conversion motor for rapid startup, smooth operation, long lifespan, and rotor parameter locking for experiment accuracy.



4. Precise acceleration/deceleration: 10 speeds adjustment, 9th gear free stopping up to 540s for special separation needs.
5. Emergency stop and safety: Emergency door pull rope for quick access, overspeed/unbalance/door cover protections for operational safety.
6. Ergonomic design: Low lid height, easy press-to-close lid, rotor tool holder for easy tool management and replacement.
7. Noise reduction: Advanced system for quieter, healthier experimental environments.

Working Principle

1. **Centrifugal principle:** High-speed rotation stratifies sample components by density; heavier materials move to tube bottom, lighter to top.
2. **Decap function:** Dedicated rotor and pneumatic system precisely remove tube caps during centrifugation, optimizing separation and minimizing contamination.
3. **Acceleration/deceleration:** Linear drive with 10-speed adjustment and free stop for smooth, gentle sample handling.

Application Areas

1. **Hospitals & Blood Stations:** Efficient, safe processing of large quantities of blood tubes for hematology and blood centers.
2. **Clinical Testing & Medical Research:** Accurate plasma/serum separation for hematology and immunology labs.
3. **Biomedical Research:** Reliable separation for biological product R&D, vaccine manufacturing, and protein separation.
4. **Scientific Research & Teaching:** Molecular biology, cytology, chemical analysis with improved efficiency and reduced errors.
5. **Vaccine Production & Blood Preservation:** Precise blood component separation for safer preservation and transportation.

Model	CG30
Maximum speed	6500rpm
Maximum RCF	5091xg
maximum capacity	104 Tubes, 4x750ml
Rotation Speed Accuracy	±10rpm
Timer	1 second to 99 hours 59 minutes
Centrifugal chamber diameter	420mm
Noise	≤65dB
Power supply	230Vac, 50Hz, 10A
Power	550W
Overall dimensions	560x456x395mm
Net weight	55kg