

capillary centrifuge for microhematocrit and hematocrit use

Capillary centrifuge is a specialized equipment for hematocrit determination, using standard capillary centrifugation method, widely used in clinical diagnosis and hematology research.

Capillary Centrifuge

Main Features

1. High rotational speed: Up to 12,000 rpm—delivers fast, efficient blood separation.
2. High relative centrifugal force: Up to $13,680\times g$ —ensures thorough stratification of blood components.
3. Precise control: Independently set and control speed and centrifugation time for accurate, repeatable results.
4. 24 capillary rotor: Processes up to 24 samples simultaneously—boosts throughput for busy labs.
5. Standard capillary dial: Direct hematocrit readout from each capillary tube—fast and reliable data acquisition.
6. Sturdy & durable construction: Stainless steel chamber—corrosion-resistant, built for long-term use.
7. Large LED display: Clear, real-time display of settings; includes rpm/RCF conversion for easy adjustment.



Working Principle

High-speed rotation generates strong centrifugal force, separating blood components by density. Blood in capillary tubes is stratified into plasma, red cells, and white cells. Hematocrit is read directly from the dial. Process is fast, efficient, and highly reliable.

Advantages

1. High efficiency: Simultaneous multi-sample processing—ideal for large-scale operations.
2. Easy operation: Intuitive LED display and precise controls—suitable for all user levels.
3. Durable: Stainless steel design resists wear—minimizes maintenance costs.
4. High precision: Precise speed/time settings yield dependable results—meets strict hematology standards.

Application Areas

1. Clinical medicine: Hematology testing in hospitals/clinics for anemia, circulation disorders, and more.
2. Hematology research: Cell distribution analysis, blood disease studies, and component analysis in labs.
3. Emergency/critical care: Rapid blood data for urgent clinical decision-making.
4. Teaching/training: Medical education and lab skills development—principles of blood separation and hematocrit measurement.

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Model	HCT10
Speed range	500rpm to 12000rpm
Speed accuracy	±100rpm
relative centrifugal force	13680xg
Rotor capacity	1 type
Timer	10seconds to 99minutes or continuously
Motor type	brushless dc motor
Display screen	LCD
Safety	double door lock
Acceleration and deceleration	40 seconds
Power supply	200Vac to 240Vac,50Hz, 60Hz, 5A, 380W
Dimensions	365x285x215mm

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Model	HCT10
Weight	10kg
Enhanced functionality	Rotation speed, relative centrifugal force conversion function. Instantaneous centrifugation. Audible alarm and display of the running process.