

## blood bag centrifuge for medical use in blood stations

Blood bag centrifuge is suitable for large-capacity blood bag separation, which can process a large number of blood samples quickly and efficiently, and is widely used in the fields of blood product extraction, blood testing and so on.

### Blood Bag Centrifuge

Blood bag centrifuge has high-precision centrifugal force adjustment, automatic protection system, low noise and large capacity processing capacity.

### Features

1. High precision centrifugal speed adjustment: centrifugal speed is adjusted in every 100rpm with a high precision of  $\pm 20$ rpm. Users can make precise adjustments according to the experimental requirements to ensure the separation effect.
2. Adjustable acceleration and deceleration: the centrifuge supports the setting of acceleration and deceleration time according to the customer's demand, so that the user can flexibly select the appropriate parameters according to the characteristics of the samples and experimental needs to optimize the separation process.



3. Automatic protection system: the centrifuge is equipped with multiple automatic protection systems, including imbalance detection, overspeed, over-temperature, door lock and other functions, to ensure that the equipment remains safe and stable during operation. Equipped with self-correcting balanced rotary head, when the rotary head is out of balance, the system will display the error code and issue an alarm, and automatically shut down to prevent the equipment from being damaged or the samples from being handled improperly.
4. Carbon brushless inverter motor: It is driven by carbon brushless, inverter motor, which reduces the frequency and cost of maintenance, and the motor runs smoothly with low noise, which prolongs the service life of the equipment.
5. All-steel structure body: the equipment body adopts all-steel structure, and the internal three-layer protection design ensures the durability and safety of the equipment in the process of long-time operation.
6. Low-noise operation: the centrifuge runs with little vibration and noise below 65 dB, providing a quieter working atmosphere for the experimental environment, suitable for environments that require long working hours.
7. Large-capacity blood bag processing: the use of horizontal square cup rotor, the capacity can reach 6x1000ml, can one-time processing of up to 400ml of five blood bags or six 100ml platelet transfer bags, to meet the needs of large-capacity blood processing.

## Principle

1. Blood bag centrifuge utilizes the principle of centrifugal force to generate strong centrifugal force by rotating at a high speed to separate the components in the blood sample according to their density differences. During the centrifugation process, the red blood cells, plasma, platelets and other substances in the blood will settle in layers due to their different densities. The centrifuge has various rotor configurations, which can adjust the centrifugation time, speed and acceleration/deceleration process according to different blood components and separation needs, so as to obtain a good separation effect.
2. Centrifugal force principle: Centrifugal force is the key factor affecting the separation effect. According to the rotational speed, rotor design and sample characteristics, the centrifuge can accurately calculate and set the appropriate centrifugal force, so as to effectively separate all kinds of components in blood.
3. Acceleration and deceleration control: The acceleration and deceleration process of the centrifuge is crucial for sample processing. Accelerating too fast may lead to sample mixing, while decelerating too slowly may lead to poor centrifugation results. The device ensures a smoother and more efficient centrifugation process through the adjustable acceleration and deceleration time function.
4. Self-balancing correction: The blood bag centrifuge is equipped with a self-balancing correction system. Even when handling blood bags of different weights, the device can automatically adjust the balance to ensure that the centrifugation operation will not affect the separation effect due to imbalance.

<b>Model</b>	<b>CS40</b>
Maximum speed	6500rpm
Maximum RCF	6680xg
maximum capacity	6x1000ml
Rotation Speed Accuracy	±10rpm
Timer	1 minute to 23 hours 59 minutes
Centrifugal chamber diameter	600mm
Noise	≤65dB
Power supply	230Vac, 50Hz, 30A
Power	1500W
Overall dimensions	840x730x1240mm
Net weight	190kg

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