

filtration centrifuge with 5000 rpm and 8 liters per minute

Filtration centrifuges are widely used in various industries, so that the separation efficiency and product quality has been significantly improved, is an important equipment in modern industry and laboratory.

filtration centrifuge

The filter centrifuge is ideal for large capacity and high efficiency separation needs, with advanced features such as continuous filtration, brushless DC motor drive, and robust stainless steel construction. Its precise control and strong sealing design make it suitable for complex chemical and industrial environments.

Features

1. Rotating speed 5000rpm, capacity 8 liters per minute, suitable for large capacity and high efficiency separation needs.
2. Brushless DC motor drive, combined with microcomputer control system, ensures low noise, no carbon powder pollution and prolongs the service life of the equipment.
3. The centrifugal rotor and centrifugal chamber are made of stainless steel, with corrosion resistance, able to cope with a variety of complex chemical environments.



4. The door cover seal adopts silicone rubber sealing strip to ensure stronger sealing and prevent material leakage.
5. With continuous separation function, can be combined with other components to build a fully automatic separation and filtration system to improve efficiency.
6. Equipped with standard filter bag, easy to operate, convenient for users to complete the filtration task efficiently.

Working Principle

1. Filter centrifuge utilizes centrifugal force to separate solid particles and other insoluble substances from liquid.
2. The working process is to put the liquid sample to be treated into the centrifuge, and the centrifugal force generated by high-speed rotation makes the solid particles deposited in the filter bag or centrifugal tube.
3. The liquid is discharged through the filter bag or screen to achieve the purpose of separation.
4. In this process, the microcomputer control system regulates the parameters such as rotational speed and time to ensure precise and stable separation effect.
5. Silicone rubber sealing strip prevents sample leakage and ensures the sealing of the equipment at the same time.

Application Areas

1. Biological engineering: in the process of cell culture, enzyme extraction, etc., filter centrifuges are widely used to separate insoluble substances in cells and culture media, or used to separate and purify biologically active substances.
2. Petrochemical: in the oil refining, chemical reaction after the liquid-solid separation process, filter centrifuges can efficiently remove the solid particles in the oil-water mixture, to protect the purity of chemical production.
3. Pharmaceutical industry: in the production of drugs, filtration centrifuges are used to separate impurities in the drug solution to ensure the purity and quality of drugs.
4. Light industry and agriculture and forestry: used in water treatment, wastewater purification and agriculture, seed separation, plant extraction and other processes. It can effectively filter suspended solids and improve the quality of products.
5. Food and beverage industry: in the fruit juice, dairy products and other production processes, filter centrifuges can be used to remove sediments, to maintain the clarity and stability of the liquid.
6. Environmental protection industry: in the field of water quality monitoring, sewage treatment, etc., filter centrifuges are used to remove solids in sewage, effectively purify water.

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| Model | CS120 |
| Maximum speed | 5000rpm |
| Maximum RCF | 4100xg |
| Maximum flow rate | 8 L per minute |
| Rotation Speed Accuracy | ±30rpm |
| Timer | 1 to 99 minutes |
| Noise | ≤65dB |
| Power supply | 230Vac, 50Hz |
| Power | 350W |
| Overall dimensions | 320x380x330mm |
| Net weight | 28kg |