

crude oil centrifuge for moisture content measurement

Crude oil centrifuges are used in the petroleum industry and scientific research units for crude oil analysis, and are widely used in oilfields, refineries and environmental monitoring and other fields.

Crude Oil Centrifuge

The crude oil centrifuge is specially designed for efficient separation of water, sediment, and impurities from crude oil samples, supporting precise moisture determination in accordance with petroleum industry standards.

Features

1. Speed: 5000rpm, suitable for efficient separation of water and sediment in crude oil.
2. Capacity: 8×100ml, able to handle multiple samples at the same time, enhancing work efficiency.
3. Digital display: LED digital tube display, can clearly display the rotor number, rotational speed, time, temperature, centrifugal force, acceleration and deceleration rate and other operating parameters, and at the same time, display fault information, to facilitate real-time monitoring.



4. Heating function: built-in ring heater, fast and uniform heating, and with temperature control and constant temperature function, to ensure that the experimental temperature is in line with the standard requirements of the petroleum industry.
5. Efficient drive: large torque frequency conversion motor, smooth and fast lifting speed, low noise, low vibration, extend the service life of the equipment and maintenance-free.
6. High security: with fault self-diagnosis system, automatic detection of overspeed, over-temperature, imbalance and other abnormalities, and real-time display of fault information to ensure safe operation.
7. Durable centrifugal tube: the glass centrifugal tube made by special technology is widely used in Daqing oilfield, which has strong anti-cracking performance and ensures that it is not easy to rupture during centrifugal process.
8. Intelligent operation: microcomputer control system, support rotor number, speed, temperature, time, centrifugal force and other parameters set freely, and can be modified at any time during operation, convenient operation.

Working Principle

1. Crude oil centrifuge generates centrifugal force through high-speed rotation to separate water, sediment and other impurities from oil in crude oil samples.
2. According to GB/T6533-86 standard, the crude oil centrifuge operates at the set temperature and rotational speed to ensure the separation of water and oil.
3. The heating function of the crude oil centrifuge helps the crude oil to separate the water at the specified temperature, and the temperature control system ensures that the experimental temperature is stable and avoids affecting the measurement results due to temperature fluctuation.
4. The centrifugation process is controlled by a microcomputer, which allows the user to view and adjust the operating parameters in real time to ensure precise and reliable operation.

Application Areas

1. Petroleum industry: crude oil moisture determination centrifuge is mainly used in petroleum extraction and petrochemical industry, used to accurately determine the moisture content of crude oil, in order to ensure the quality of crude oil, in the process of crude oil production, the determination of moisture content is crucial.
2. Petroleum research and laboratory: scientific research units and laboratories in the crude oil moisture analysis, often use the equipment for standardized determination, to help researchers accurately assess the moisture content of different crude oil samples.

3. Environmental monitoring: the centrifuge can also be used for environmental pollution analysis after an oil spill or oil spill accident, to detect the oil-water separation to assess the degree of pollution.
4. Quality control: in the production process of the oil industry, the moisture content will directly affect the processing and transportation of oil products, the use of centrifuges for regular testing, help to strengthen quality control and reduce the risk of transportation process.

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Model	CS140
Maximum speed	5000rpm
Maximum RCF	4250xg
maximum capacity	8x100ml
Rotation Speed Accuracy	±10rpm
Timer	1 to 99 minutes
Centrifugal chamber diameter	500mm
Noise	≤65dB

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Model	CS140
Power supply	230Vac, 50Hz, 15A
Power	1500W
Overall dimensions	825x625x910mm
Net weight	108kg