

Centrifuge with Swing Rotor, 4x100ml, Heating Centrifuge



The Heating Centrifuge (Model: MSCFG5DOILSWISS) is a specialized device designed for the oil extraction industry, particularly for measuring the water content in crude oil. Below is a detailed overview of its features, specifications, and capabilities:

Key Features:

1. High-Definition Touch Screen Interface:

- Displays rotation speed, running time, temperature, acceleration/deceleration gears, rotor specification, door status, and real-time date/time.

1. Brushless Frequency Conversion Motor:

- Large torque, maintenance-free, dust-free, and capable of fast acceleration and

deceleration for improved work efficiency.

1. Efficient Heating System:

- Uses a ring heater for quick and uniform heating, with temperature control and constant temperature functionality, ideal for petroleum industry applications.

1. Safety Features:

- Automatic electric induction door lock with an emergency door opening function.
- Automatic protection for overspeed and imbalance.
- Built with high-quality steel and stainless steel explosion-proof components, ensuring safe operation.

1. Convenient Rotor System:

- Spring taper sleeve connection for fast and non-directional rotor loading/unloading, improving ease of use and reliability.

1. Centrifuge Bucket Design:

- Specially designed to reduce vibration and protect glass tubes, equipped with a PA polymer pad in the alloy aluminum cup for additional protection during centrifugation.

1. Fault Self-Diagnosis System:

- Automatically detects and displays faults such as overspeed, over-temperature, imbalance, and door lock issues, enhancing safety.

Specifications:

- Control System: Microprocessor-controlled.
- Timer: Adjustable from 1 second to 99 hours, 59 minutes, 59 seconds, countdown displayed in seconds.
- Heating: Adjustable from room temperature (RT) +10°C to 80°C with a 2-point display.

- Brake System: Automatic braking.
- Safety Mechanisms: Includes cover lock, unbalance shut-off, emergency release, and error message display.
- Display: LED shows motor status, heating, brake, timer, and error messages.
- Fixed Programmed Speed: 1280 rpm (Max speed: 5000 rpm).

Performance Specifications:

- Max Speed: 5000 r/min.
- Max RCF (Relative Centrifugal Force): 4730 × g.
- Capacity: 4 × 100 mL (swing rotor).
- Speed Accuracy: ±10 r/min.
- Temperature Range: RT +10°C to 80°C.
- Temperature Accuracy: ±2°C.
- Timing Range: 1 second to 99 hours, 59 minutes, 59 seconds.
- Sound Emission: ?60 dB(A).
- Electricity: AC 220V, 50 Hz, 10 A.
- Dimensions:
- External: 700 × 500 × 400 mm.
- Shipping Dimension: 890 × 590 × 570 mm (in a wooden box).
- Weight: Net weight 67 kg, gross weight 93 kg.

Rotor Specifications:

- Swing Rotor:
- Max Speed: 2000 rpm.

- Max RCF: 957 × g.
- Max Capacity: 4 × 100 mL.

This heating centrifuge is optimized for use in oil extraction processes, with robust safety features, precision temperature control, and high reliability for accurate water content measurement in crude oil.