Centrifuge with Swing Rotor, 4x100ml, Heating Centrifuge

Model **MSCFG5DOILSWISS** | Brand **Master Science** | Unit **Pc**



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: o Displays rotation speed, running time, temperature, acceleration/deceleration gears, rotor specification, door status, and real-time date/time. 2.

KEY HIGHLIGHTS

- Additional Information

AT A GLANCE

5000 rpm).
FIXED PROGRAMMED SPEED1280 RPM (MAX SPEED

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Overview

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Key Features

- Displays rotation speed, running time, temperature, acceleration/deceleration gears, rotor specification, door status, and real-time date/time.
- Large torque, maintenance-free, dust-free, and capable of fast acceleration and deceleration for improved work efficiency.
- Uses a ring heater for quick and uniform heating, with temperature control and constant temperature functionality, ideal for petroleum industry applications.
- 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.
- Spring taper sleeve connection for fast and non-directional rotor loading/unloading, improving ease of use and reliability.
- 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.
- Automatically detects and displays faults such as overspeed, over-temperature, imbalance, and door lock issues, enhancing safety.

Additional Information
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.

Technical Specifications

PARAMETER	SPECIFICATION
Control System	Microprocessor-controlled.
Brake System	Automatic braking.
Display	LED shows motor status, heating, brake, timer, and error messages.
Fixed Programmed Speed	1280 rpm (Max speed 5000 rpm).
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.
Dimensions (Shipping Dimension)	890 × 590 × 570 mm (in a wooden box).
Dimensions (Weight)	Net weight 67 kg, gross weight 93 kg.
Swing Rotor (Max Speed)	2000 rpm.
Swing Rotor (Max RCF)	957 × g.
Swing Rotor (Max Capacity)	4 × 100 mL.
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.
Safety Mechanisms	Includes cover lock, unbalance shut-off, emergency release, and error message display.