High Speed Refrigerated Centrifuge - Cooled Microcentrifuge - 18800 rpm - -20 to 40°C

Model **MSCFGR-18.5JPSWISS** | Brand **Master Science**





The Master Science Refrigerated Microcentrifuge spins small tubes at up to 18800 rpm and 26870 ×g while holding the chamber between -20 and 40 °C. It is built for samples that must stay cold, in micro tubes, PCR strips, capillaries and tubes up to 10 mL.

KEY HIGHLIGHTS

- Protects sensitive samples
- Ready when you are
- Saves energy
- Biosafe rotors
- No rotor mistakes

AT A GLANCE

18800 rpm MAXIMUM SPEED	**12 × 10 mL** MAXIMUM CAPACITY
AC 220 V, 50 Hz, 10 A POWER SUPPLY	**-20 to 40 °C** TEMPERATURE RANGE

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

Pre-cooling works in standby, and the chamber drops from 21 °C to 4 °C in five minutes or less. The magnetic rotor is identified automatically, which prevents running a rotor above its rated speed.

Key Benefits

Protects sensitive samples
the Master Science Refrigerated Microcentrifuge keeps tubes cold during the run.

Ready when you are
pre-cooling in standby, 4 °C in 5 minutes.

Saves energy
compressor goes to standby at set temperature.

Biosafe rotors
sealed and autoclavable.

No rotor mistakes
automatic recognition with over-speed protection.

For larger volumes at room temperature, see the Master Science low speed centrifuge.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSCFGR-18.5JPSWISS
SKU	MSCFGR-18.5JPSWISS
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Model Number	MSCFGR-18.5JPSWISS
SKU	MSCFGR-18.5JPSWISS
Maximum Speed	18800 rpm
Maximum RCF	26870 ×g
Maximum Capacity	**12 × 10 mL**
Speed Accuracy	**±10 rpm**
Temperature Range	**-20 to 40 °C**
Cooling Time	21 °C to 4 °C in ≤ 5 min
Timer	1 s to 99 h 59 min 59 s, plus short spin
Programs	20 stored, 5 differential centrifugation programs
Acceleration / Deceleration	15 rates
Motor	Brushless AC variable frequency
Safety	Double lid lock, imbalance stop with alarm, over-speed protection, automatic rotor recognition
Chamber	Stainless steel with condensate drain
Rotors	Sealed angle rotors, autoclavable at 121 °C
Noise	≤ 58 dB
Rotor Options	24 × 1.5/2.2 mL or 24 × 0.5 mL at 18800 rpm (26870 ×g); 12 × 5 mL; 12 × 10 mL at 13500 rpm; PCR strips 4 × 8 and 8 × 8 × 0.2 mL; 36 haematocrit capillaries
Display	Colour LCD touch screen

POWER	
Power Supply	AC 220 V, 50 Hz, 10 A
Power	1000 W

DIMENSIONS & WEIGHT	
Dimensions (W × D × H)	613 × 382 × 325 mm
Net / Gross Weight	70 kg / 88 kg

HOW THE MASTER SCIENCE REFRIGERATED MICROCENTRIFUGE PROTECTS SAMPLES	
Samples warming during long spins	active refrigeration to -20 °C.
Waiting for the chamber to cool	pre-cooling and fast cool-down.
Water pooling in the bowl	condensate drain hole.
Aerosols from leaking tubes	sealed rotors.

Applications

The Master Science Refrigerated Microcentrifuge suits
0.5 to 2.2 mL micro tubes PCR strips of 0.2 mL tubes Blood capillary tubes 5 mL and 10 mL tubes, including vacuum tubes Cold differential centrifugation

Cooling

- -20 to 40 °C
- Standby pre-cooling
- Condensate drain in chamber

Performance

- 18800 rpm, 26870 ×g
- ±10 rpm accuracy
- Brushless motor

Control and Safety

- Touch screen, 20 programs
- Automatic rotor identification
- Double lid lock and imbalance stop

Optional Accessories

- Angle rotors for 0.5, 1.5/2.2, 5 and 10 mL tubes
- PCR strip rotors
- Haematocrit capillary rotor
- Rotor for 5 mL vacuum tubes