

VORTEMP Gyrator with thermostatic and cooling function

Mod. MS 100 +5°C over ambient up to +100°C

Mod. MSC 100 0°C up to +100°C

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Introduction

MSC-100 constant temperature mixing device (oscillator type of metal bath temperature) using a brushless DC motor and microprocessor control technology, the thermostat and oscillating two.

The perfect combination of function, greatly shortening the experimental operation time and improve staff efficiency, The sample incubation, catalytic, and mix to.

The ideal reaction preservation automation tools.

MSC-100 constant temperature mixing device with heating, cooling, vibration and other multi-purpose functions.

Features

1. LCD liquid crystal display
2. With power recovery, restore power after the instrument can automatically resume operation according to the original set
3. Microprocessor control, temperature control linear, oscillation speed is accurate, small fluctuations
4. Has a timer function, the range from 0 to 100 hours of training time for any set
5. A variety of standard sample modules to choose from, easy to replace.
6. Temperature calibration and short jog function Oscillatory
7. Brushless DC motor, long life, maintenance-free
8. Multiple security features, meet the CE safety standards, safe and reliable

Performance

	Mod. MSC - 100	MS - 100
1. Temperature range:	0°C~100°C	+5°C over ambient up +100°C
2. Temperature Uniformity:	≤ ± 0.3°C	same
3. Temperature Stability:	± 0.3°C	same
4. Temperature Display Accuracy:	0.1°C	same
5. Heating rate:	< 20 min (from 20°C to 100°C)	30 min>from RT to 100°C/ 15 min>from 100°C to +20°C
6. Cooling time:	in reference of probe material	
7. Cooling speed:	≥ 7°C/min (down from 100°C to 20°C)	≥ 1.2°C/min (room temperature began to fall from 10°C)
8. Refrigeration depth:		

When the ambient temperature is below 20°C (including 20°C), the module can reach the minimum temperature 0°C

When the ambient temperature at 25°C or less (including 25°C), the minimum temperature of up to 4°C module

When the ambient temperature is below 30°C (including 30°C), the minimum temperature can reach 10°C module

9. Oscillating speed range: 200-1500rpm (step 1rpm) (*)

10. Oscillating amplitude and mode: 2mm (horizontal rotation)

11. Time to set up: 99h59min

12. Maximum temperature: 105°C

13. Model choice: See MSC-100 Series modules can be replaced

* 1) maximum temperature and the mixing frequency module according to the specific use of the decision.

Instrument General Configuration

1. Instrument conventional configuration: MSC-100A/MSC-100B/MSC-100C/MSC-100D/MSC-100E
Example: MSC-100C that use MSC-100 constant temperature mixing device, the module uses 35x1.5ml the C module.
2. Maximum power of 200 watts
3. Overall dimensions: 300x220x170 mm
4. Net weight: 8.5kg

Dimensions and specifications are subject to change without notice for further improvements on design.
Dimensions may vary dependent on different accessories be used.

UNIEQUIP

D-82152 Martinsried / München - Fraunhoferstrasse 11
Telefon: +49-89-8 57 52 00 · Telefax: +49-89-8 56 13 04
e-mail: info@uniequip.de · Internet: www.uniequip.com

MSC-100 Series modules can be replace

Model	Tube diameter and the number of	Highest temperature	Maximum speed	Remarks
A	96 × 0.2ml standard board	100°C	1500	
B	54 × 0.5ml centrifuge tubes	100°C	1500	
C	35 × 1.5ml centrifuge tubes	100°C	1500	
D	35 × 2.0ml centrifuge tubes	100°C	1500	
E	15 × 0.5ml + 20 × 1.5ml centrifuge tubes	100°C	1500	
F	24 × diameter ≤ φ 12mm tube	100°C	1200	
G	12 × 15ml Falcon tubes	100°C	750	
H	6 × 50ml Falcon tubes	100°C	750	
I	103 × 67 × 30 (sink module)	100°C	1500	
K	96 × 0.2ml microtiterplate (flat bottom)	100°C	1500	



A Module



B Module



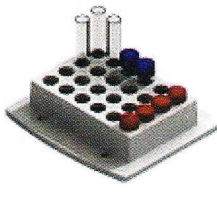
C Module



D Module



E Module



F Module



G Module



H Module



I Module



K Module

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