



2016 Catalogue

 **major
science**

Innovative Life Sciences Tools

Chemical Engineering



Thermostirrer

The Major Science Thermostirrer is equipped with built-in stirrers on the bottom of each well. Combined with excellent temperature control, the instrument is well-suited for a variety of applications, including synthesis of chemical compounds, denaturation, derivatization, combinatorial chemistry, sample concentration, enzyme assays and process optimization.

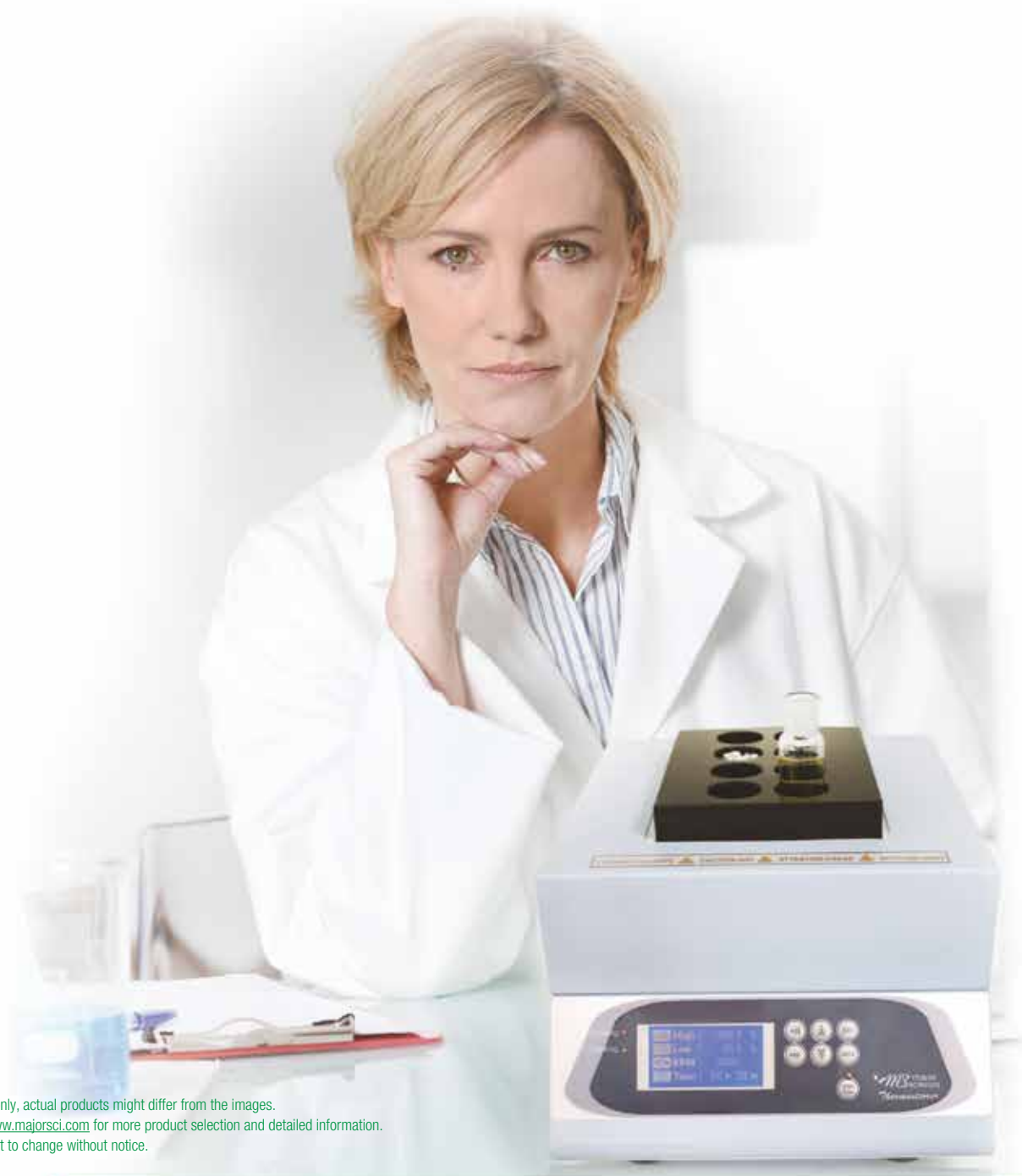


Thermostirrer

Thermostirrer

124-125

- ❖ Thermostirrer
- ❖ Remote Thermostirrer Module



*All images are for reference only, actual products might differ from the images.

*Please visit our website at www.majorsci.com for more product selection and detailed information.

*Technical specification subject to change without notice.

NEW

Thermostirrer

TS-8W / CM-M0512-001

Major Science Thermostirrers feature leading-edge speed performance and the broadest temperature control range to cover a variety of chemical and biological applications including synthesis of organic compounds, derivatization, drug solubility, protein crystallization and process optimization. Mixing efficiency is maintained uniformly across the sample wells due to independent magnets under each well and thus ensures consistency of experimental results. Furthermore, Major Science designed a remote thermostirrer module for studies that require a thermostatic mixer to function as a part of an automated process such as a polymer viscometers.

The Remote Thermostirrer Module allows you to set your own program with modbus PC connection and integrate with your own manufacture equipment. For more information with this module, please contact Major Science.



CE
TS-8W



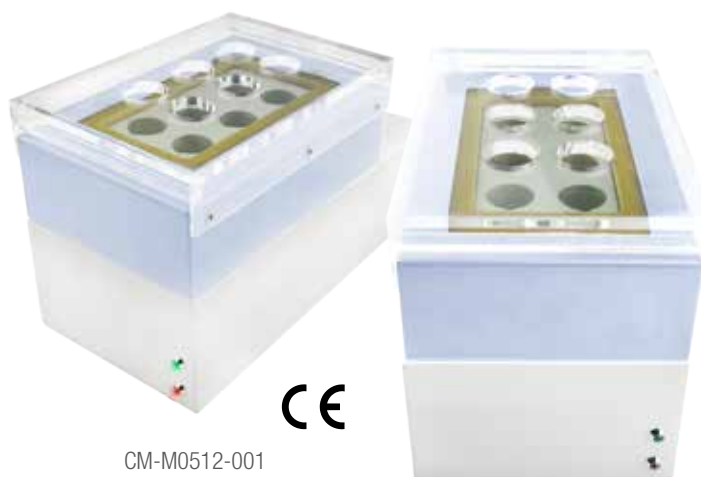
User temperature calibration



Cooling System Connection Port



Functional control software package available



CM-M0512-001
Remote Thermostirrer Module

Features

- Microprocessor control with digital performance
- Brushless motor for individual well agitation
- Outstanding temp. control performance up to 200°C
- User temperature calibration
- Customization available
- Well-insulation around casework
- Over temperature protection
- LCD screen & timer (standalone model only)
- Highest stirring speed, 3500 rpm in the market



Thermostirrer

Specifications

Cat. No.	TS-8W-110	TS-8W-220	CM-M0512-001
Controller	Digital microprocessor controller		
Display	2.6" LCD monochrome display		Remote
Motor	Brushless motor		
Number of position	8 wells (2x4) with individual magnetic stirrer or customized		6 wells with individual magnetic stirrer **
Well diameter	Ø29.5mm, 62mm depth **		Ø23mm, 44mm depth **
Stirring speed	500 - 3500rpm		500 - 2500 rpm
Temperature control range	5°C above ambient to 200°C		
Temperature increment	± 0.1°C		
Temperature uniformity	± 0.7°C @ 150°C		N/A *
Temperature accuracy	± 0.2°C @ 150°C		± 0.5°C @ 120°C
Temperature calibration	Yes		
Operating temperature	Ambient to 40°C		
Timer	99 (hr): 59 (min) / Continuous		
Block material	PTFE coating with individual magnetic		Anodic treatment without PTFE coating **
Data logging	RS 232 (Max. 2.5meter long)		
Safety	Insulated wells around casework		
	Leakage proof for heating chamber		
	Over Temperature protection		
Rated voltage	110V~; 50/60Hz	220V~; 50/60Hz	110V~ or 220V~; 50/60Hz
Dimension (WxLxH)	8.97"x11.7"x6.24" (230x300x160mm)		5.16"x11.68"x6.19" (132.5x299.5x158.9mm)
Weight	Approx. 18.74lb (8.5kg)		Approx. 11.05lb (5kg)
Power rating	110V for 6.3A	220V for 3.15A	110V for 6.3A 220V for 3.15A
Power	600W		
Vessel diameter	Max. 28.5mm or customized **		Max. 22mm **
Communication port	RS-232		Modbus RTU by RS-232

*Temperature uniformity would be dependent on the integration to your automation system.

** Customized Specification.

Ordering Information

Cat. No.	Product Description
TS-8W-110	Thermostirrer 8wells, 110V
TS-8W-220	Thermostirrer 8wells, 220V
CM-M0512-001	Remote Thermostirrer Module 6wells, 220V~ / 110V~

Accessories

Cat. No.	Product Description
TS-8W-SW	Functional control and data logging software for Thermostirrer series. Including software CD and cable.



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