



MAS-1 Microwave Synthesis System

www.sineo.cn

ABOUT US

Since the establishment in 1994, Sineo has been active in the field of laboratory microwave technology for analytical and organic chemistry applications. With over 1000 customers nationwide, we are acknowledged industry leader in China. We commit to deliver the most advanced, practical and convenient microwave chemistry technology and solutions to various customers through our products and services.



MAS-1 Microwave Synthesis System

MAS-1 Microwave Synthesis System is a refined, professional labstation designed for academic research and teaching labs with synthetic chemistry applications. It combines:

1. A microwave cavity for generating the microwave field,
2. Build-in IR sensor for automatic temperature control and feedback-based process control,
3. Build-in both mechanical and magnetic stirring device. Stirring speed tunable.
4. On-site camera and TFT LCD monitor system.



Technical Data:

- Continuous Microwave Power, Non-pulsed Power Supply.
- 1000W delivered power in 10W increments is dynamically adjusted between 0~1000W based on temperature of reaction.
- Advanced infrared temperature sensor installed in the side wall of the cavity monitors and controls the temperature of reaction, maximum controllable temperature 250°C (Optional 500°C or 900°C).
- Both mechanical and magnetic stirring device. Stirring speed can be tuned and monitored.
- Standard interface for various reaction flasks (from 50ml to 1000ml).
- Vivid on-site camera and TFT LCD display to closely monitor the reaction process.
- Preset up to 10 reaction methods for different synthetic chemistry reactions.
- Large volume exhaust module to clear vapors from cavity.

www.sineo.cn

MAS-1 Microwave Synthesis System



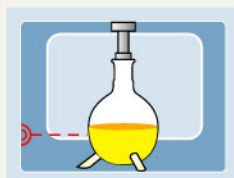
Features:

Preset up to 10 reaction methods programmable for steps, temperature, time, microwave power, etc.

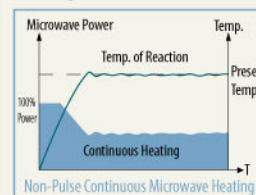
TFT color display to on-site monitor and record the reaction process inside the cavity.

Special treatment to the interior of the cavity to protect the unit from aggressive acids and solvents.

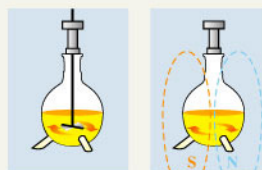
Advanced IR temperature sensor monitors and controls the temperature of reaction. Controllable temperature range: Room temperature ~250°C, Precision: $\pm 1^\circ\text{C}$.



Microwave power is automatically adjusted along with the reaction temperature to provide non-pulse continuous microwave heating.



Two stirring device (mechanical or magnetic) with adjustable speed and real-time display.



Add: 3F, South Building, 227 Guan Sheng Yuan Road, Shanghai, China 200235
Tel: 0086-21-5448 7840 / 7841 / 7842 / 7843 Fax: 0086-21-64080840
Email: marketing@sineo-sh.com Website: www.sineo.cn



Sineo Microwave Chemistry Technology Co., Ltd.