

MAS-II Microwave Synthesis System

SINEO 新仪

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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 solution to various customers through our products and services.

MAS-II Microwave Synthesis System

MAS-II Microwave Synthesis System is 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 20ml to 1000ml).
- Vivid on-site camera and TFT LCD display to closely monitor the reaction process.
- Preset up to 30 reaction methods for different synthetic chemistry reaction.
- Large volume exhaust module to clear vapors from cavity.



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LCD Graphic Display

Advanced IR temperature sensor Monitors and Controls the Temperature of Reaction. Controllable Temperature range : Room Temperature - 250°C Precision = 1°C

Motorised Stirrer

TFT Colour display to on-site Monitor and record the reaction process inside the cavity.

Nitrogen Purging Tube

Microwave Power in automatically adjusted alongwith the reaction temperature to provide non-pulse continuous microwave heating.

Two stirring Device (Mechanical or Magnetic) with adjustable speed and real time display.

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