

## NOVA-2S Microwave Synthesizer

The NOVA-2S Microwave Synthesizer, a supermatic model adopts monomode microwave technology which contains automatic sampling automatic capping and full automatic control. Operators can directly edit the programs and start running via distinctive embedded touch-screen interface.

The NOVA-2S System, designed by Germany, is widely used in organic chemistry, material industrial, etc. in high reproducibility.



## Innovation

### Monomode Microwave Technology

- Focused Monomode Microwave Energy on the Sample
- Homogenous Microwave Field
- High Reproducibility of Experiment Results

### Operation System

- Distinctive Embedded Touch-screen Interface
- Direct operation without PC

### Quick Cooling Design

- Custom Designed Air-cool Pipe
- Optional Air Compressor Device

### Safety by Design

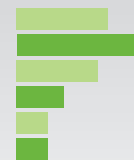
- Enhanced Resonant Chamber
- Automatic Pressure Measurement and Control in the process
- Electronic Unlock Safety Condition

### Control System

- Full Automatic Control System
- Combined into Integration System via Optional Automatic Sampling System, VOCA

Reaction Vessel	Closed	Opening
Volume	10/30ml	55/100ml
Material	Pyrex	Glass
Max. Temperature	200 °C	250 °C
Max. Pressure	20bar	NA

Simpler process » Easier work



## Specifications

Touch Screen	6.4" LCD Touch Screen, GUI Operation Interface
Microwave Resonant Cavity	Industrial Stationary Wave Monomode Microwave Resonant Cavity
Maximum Microwave Power Output	500W
Microwave Frequency	2450MHz
Microwave Emission Mode	Non-pulse Continuous Microwave Output
Microwave Control Mode	High Frequency Closed-loop Feedback (PID) Control
AC Power Input	220-240V/50Hz, 10A
Control System	ARM9 Embedded System
Reaction Vessel Category	Closed System and Opening System
Pressure Measurement & Control System	Pressure Measurement Range: 0-40bar Pressure Measurement Precision: $\pm 0.1$ bar
Temperature Measurement & Control System (Infrared Sensor)	Temperature Measurement Range: -20-350 °C Temperature Measurement Precision: $\pm 1$ °C Temperature Control Stability: $\pm 1$ °C
Temperature Measurement & Control System (Fiber Optic Sensor, Optional)	Temperature Measurement Range: 0-250 °C Temperature Measurement Precision: $\pm 1$ °C Temperature Control Stability: $\pm 1$ °C
Stirrer System	Magnetic Stirrer: 600rpm/min Mechanical Stirrer (Option for Opening Vessel): 0-2000rpm/min
Exterior Dimension	370mm (H) × 370mm (W) × 620mm (D)
Weight	45.5Kg

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