



Simpler process, easier work

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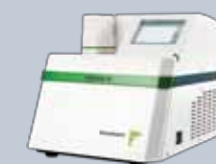
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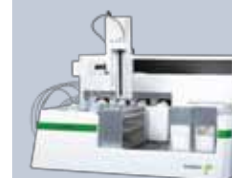
Microwave Digestion



Microwave Synthesis



Microwave Moisture



Solid Phase Extraction



Jeff Ni
CEO, PreeKem Scientific Instruments Co., Ltd.

A letter to customers and colleagues >>

Dear customers and colleagues:

Thanks to our customers' support and trust, PreeKem has successfully entered its thirteenth year of operations.

I am very pleased that over the years PreeKem has acquired an excellent R&D team, professional sales team, dedicated service team, and senior production team. But, the most important thing is that my colleagues and I share the same dream for the future development of PreeKem. We have continued to achieve amazing results over the years. Starting in 2001, we introduced the WX-2000, an in-house microwave digestion system with temperature and pressure controls, which was the first unit of its kind in the domestic market. In 2005, we launched the WX-8000 and EXCEL microwave digestion systems, two high-end models that are equipped with an industrial grade microwave resonant cavity. In 2009, we came out with a single mode microwave synthesizer, which was the first unit of its kind in China. In 2010, we introduced the SUPEX intelligent microwave digestion system and a high temperature microwave furnace, and in 2011 we introduced a microwave moisture analyzer, which consolidated PreeKem's leading role in the microwave chemistry & sample preparation fields in China.

After more than 10 years of hard work and dedication, PreeKem has built up an impeccable reputation among domestic customers. Our products have been successfully exported to the United States, Japan, Australia, Italy, and Russia. "Specialization" is our primary approach of doing business. We specialize in the fields of microwave chemistry and sample preparation, and we are able to provide more configurations through the introduction of high-end models that increase our products' competitiveness in the market. We do not engage in cutthroat price-cutting competition, but rather work hard on innovation, quality, and service in order to win our customers' respect. Quality is our foremost concern. We have adopted Supply Chain Management and Total Quality Management systems encompassing the stages of quality control of incoming materials, production assembly, and quality control of outgoing instruments. After many years of operations and making continual improvements, our company is now capable of achieving "Zero Inventory" management, and we are able to ship products within 15 days after receiving orders, which greatly increases our company's competitiveness. We are also extremely proud of our team work. Over the years, I have found that our employees are even more passionate about their work than I was when I first began this endeavor. Today, I can proudly declare that PreeKem has embraced the passion and aspirations of these individuals. I would therefore sincerely like to thank every one of my hard-working colleagues.

I would like to thank PreeKem's customers and outstanding corporate team for standing shoulder to shoulder with me over the past decade. Looking back, although the process has not been easy, the outcome is indeed rewarding. I look forward to seeing PreeKem's products stride into the world market and compete with well-known players during the next decade. Your trust is PreeKem's motivation, and I believe that with our colleagues' hard work we will gradually achieve our goal of building a globally-recognized Chinese brand name in the instrument field. I ask you to join me in witnessing that moment when it arrives.

Jeff Ni
2012.1



Corporate development timeline

- 2000 PreeKem is founded
- 2001 The first microwave digestion system with temperature and pressure controls in China — WX-2000
- 2005 Mainstream high-end microwave digestion system — EXCEL
- 2008 The first single mode microwave synthesizer in China — NOVA
- 2010 The Flagship microwave digestion system — SUPEX
- 2012 Another heavyweight product for sample preparation — EXTRA

Microwave Digestion System Modes



WX-4000 Microwave Digestion System

PIONEER model for temperature and pressure controls — Meets small-batch processing needs in traditional fields

Features:

- Entry-level product: Economically-efficient, durable, and easy to operate
- Real-time dual-control of temperature and pressure
- Simultaneously handles six high pressure digestion vessels
- Variable frequency microwave, non-pulsed continuous output
- All-steel structure ensures safety

Specification:

- Max. operating temperature: 240°C
- Max. operating pressure: 4MPa
- Microwave output: 0-1000W

VANGUARD model for high-end digestion systems

— Suitable for use in multiple fields, complicated sample digestion



WX-8000 Microwave Digestion System

Features:

- Practical product: High-end performance, low-end price
- Industrial grade all-steel microwave resonant cavity
- Dual staggered magnetrons ensure the uniformity of microwave energy output
- Simultaneously handles ten ultra-high pressure digestion vessels
- High microwave energy output

Specification:

- Max. operating temperature: 260°C
- Max. operating pressure: 6MPa
- Microwave cavity volume: 53L



EXCEL Microwave Digestion System

MASTERPIECE model with in-house Intellectual Property Rights (IPR) — Meets requirements for microwave digestion, extraction, and synthesis

Features:

- Mainstay product: Attractive, elegant, high-end performance
- High-frequency closed-loop feedback, precise control of temperature and pressure
- Large variety of accessories available for applications of extraction and synthesis
- Max. sample throughput per batch: 15 digestion vessels
- GUI allows users to see all parameters at a glance

Specification:

- Max. operating temperature: 260°C
- Max. operating pressure: 6MPa
- Microwave output: 0-1500W

PREMIER Model

— Meets microwave digestion requirements for both small-batch and high sample throughput



SUPEX Intelligent Microwave Digestion System

Features:

- Flagship product: elegant design, easy to operate
- Large 66L microwave cavity compatible with different rotors for small-batch or high sample throughput
- High microwave output of 1700W
- Large 8.4" touch LCD, displays parameters and curves in real-time
- Advanced GUI built-in methods library

Specification:

- Microwave cavity volume: 66L
- Size of LCD display: 8.4"
- Microwave output: 0-1700W

Microwave Synthesizer Modes

Multi-mode design with large microwave cavity

— Meets requirements for microwave atmospheric pressure reactions in a variety of fields



APEX Atmospheric Microwave Reaction System

Features:

- Industrial grade all-steel microwave resonant cavity
- High-frequency closed-loop feedback, precise control of temperature and pressure
- High-accuracy insertion-type temperature measurement and control system
- Magnetic and mechanical stirring systems
- User-friendly software control and display system

Specification:

- Operating temperature range: 0-300°C
- Reaction vessel volume: 50-2000mL
- Microwave output: 0-800W



NOVA-II Microwave Synthesizer

Single-mode with sealed and atmospheric pressure microwave design — Suitable for applications in a variety of research fields

Features:

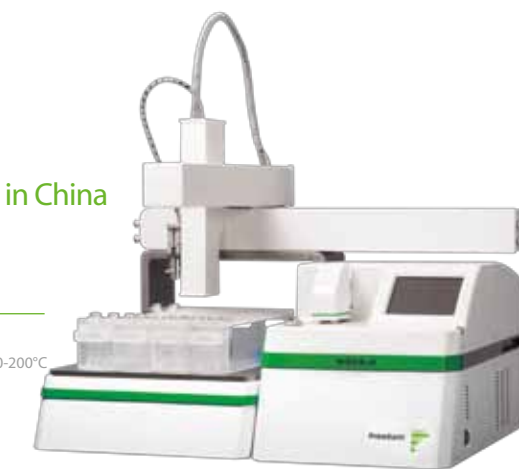
- Single mode microwave technology provides evenly distributed energy, ensuring good reproducibility.
- Precision infrared temperature control system and non-contact pressure control system
- Advanced GUI and a wide range of reaction conditions
- Can be conveniently converted to an open atmospheric pressure reaction system
- Fast air cooling system

Specification:

- Microwave output: 0-500W
- Operating temperature range: 0-200°C (sealed), 0-250°C (atmospheric pressure)
- Reaction vessel volume: 10mL/55mL (sealed), 50mL/100mL (atmospheric pressure)

The only single-mode, automated microwave synthesizer in China

— Meets high sample throughput requirements with outstanding performance



Automated Microwave Synthesizer

Features:

- The fully automated feed system can handle up to 96 samples at one time
- Single-mode microwave technology provides evenly distributed energy, ensuring good reproducibility
- Precision infrared temperature control system and non-contact pressure control system
- Advanced GUI and a wide range of reaction conditions
- Embedded operating system

Specification:

- Operating temperature range: 0-200°C
- Operating pressure: 0-2MPa
- Number of samples: 96 (10mL), 64 (30mL)

High Temperature Agglutination



RAPTOR Microwave High Temperature Muffle Furnace

Fast, high-performance, energy-saving
Suitable for materials research and applications under ultra-high temperatures

Features:

- High-energy magnetrons and patented focused energy, thermal radiant cavity, heats up quickly
- Industrial grade dual staggered magnetrons ensure the uniformity of microwave output
- 5.6" color LCD touch-screen display
- Minimal thermal pollution, well-insulated radiant cavity
- High-frequency closed-loop feedback, precise control of temperature and pressure

Specification:

- Temperature measurement range: 385-1600°C
- Max. operating temperature: 1500°C
- Microwave output: 0-3000W

Process control



Q2 Microwave Moisture/Solids Analyzer

The first domestic product of its kind
Quick analysis for moisture in solids

Features:

- Measures moisture and solids content of regular samples in less than 5 minutes
- One button operation, fast & convenient
- Patented focused microwave cavity
- Integrated printer, allows real-time data access
- Dual testing: infrared temperature measurement and continuous weighing

Specification:

- Moisture/solids measurement range: 0.01% to 99.99%
- Sample analysis time: < 5min
- Weighing accuracy: ±0.1mg

Chromatography Sample Preparation



EXTRA Automated Solid Phase Extraction System

Multi-channel, automated design
Optimal sample preparation efficiency

Features:

- Four channels operate simultaneously, can handle up to 108 samples at one time
- Can switch between as many as 8 solvents at a time
- Dual screw-rod mechanical arms, precise and durable
- High accuracy injection pump for precision control of flow rate and volume
- Graphical user interface, easy and convenient drag-and-drop operation

Specification:

- Number of samples: 108 (1mL): 80 (3mL): 64 (6mL)
- Injector capacity: 10mL (other capacity options are available)
- Flow rate: 0.0625mL-500mL/min

Service system



Full-scale and considerate service; individual customer files are established starting from the first quotation request



One-to-one customer managers provide optimized solutions for customers



From applications to maintenance, we provide comprehensive pre-sales and after sales technical support



Quick response within 15-minutes; on-site support within 48-hours



Six service stations with full inventories of parts and accessories located nationwide



Toll-free 400 service hotline, assisting you 365 days a year



Our Service >>

