

## Specifications

<b>Overall Dimensions:</b>	14.5"W x 20.8"D x 27"H (36.2 cm x 51.9 cm x 67.4 cm)
<b>Weight:</b>	68 lbs
<b>Electrical Requirements:</b>	90 - 264 VAC 50/60 Hz, 10 Amp @120 VAC, 5 Amps @ 220 VAC
<b>Magnetron Frequency:</b>	2450 MHz
<b>Power Output:</b>	300 Watts, continuous output
<b>Pressure:</b>	Monitor 0 - 35 Bar, Control 0 - 20 Bar
<b>Temperature:</b>	-80 - 300 °C control range**
<b>Stirring:</b>	In-situ magnetic
<b>Microwave applicator:</b>	Circular, single-mode, self-tuning
<b>Ethernet Port</b>	
<b>Serial Port:</b>	(2) RS-232, 9 pin IBM PC compatible
<b>Patents:</b>	US Patents 6648659, 6666223, 6744024 with others pending

### Headquarters

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### Subsidiaries

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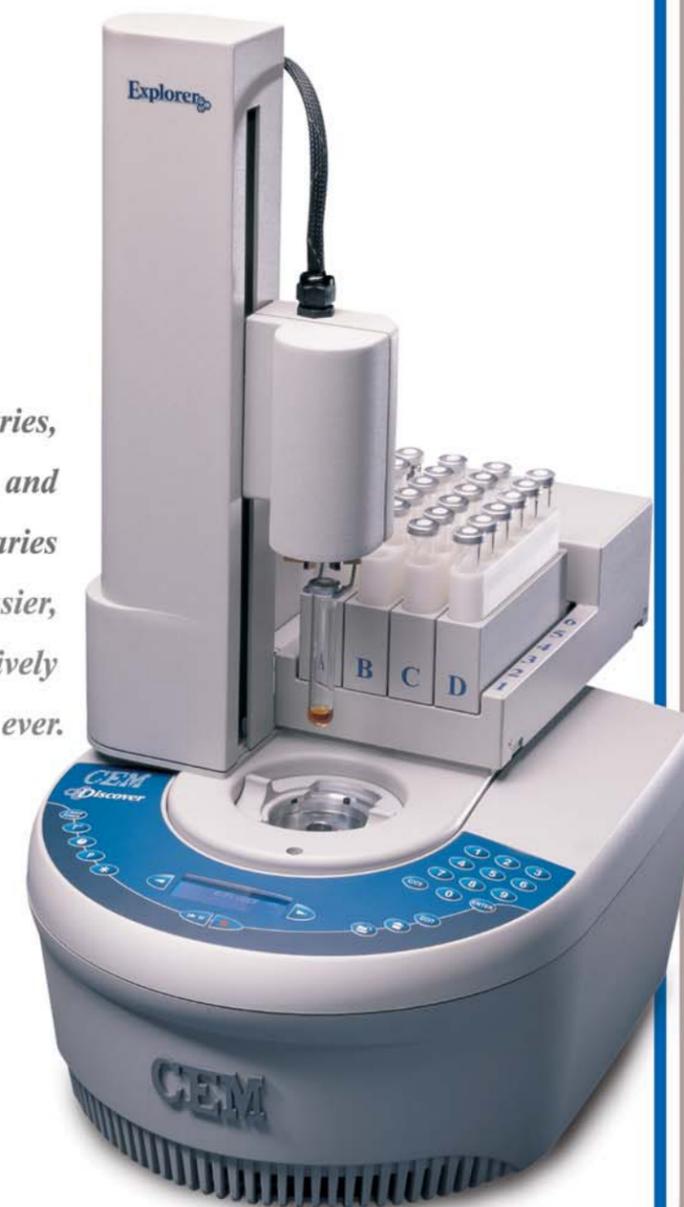
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# Explorer<sup>®</sup>



## Automated Microwave Synthesis Workstation

*Explore new chemistries,  
optimize leads, and  
generate focused libraries  
faster, easier,  
and more effectively  
than ever.*



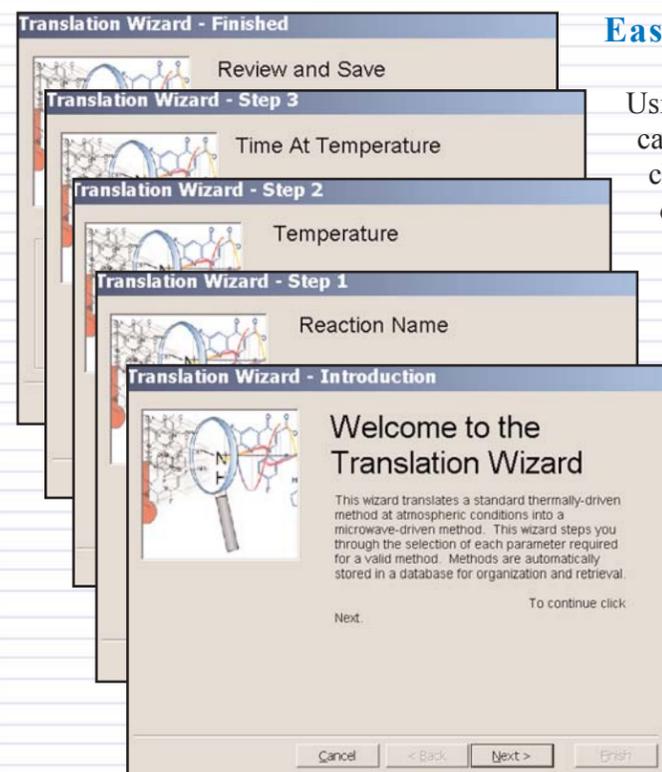
# CEM

# Explorer<sup>®</sup>

Automated Microwave Synthesis Workstation

## Automation can be simple, effective, and flexible!

Explorer<sup>PLS</sup><sup>®</sup> brings automated reaction handling capabilities to the Focused<sup>™</sup> Microwave Synthesis family of products. Optimize your reactions and expand the capabilities of your laboratory all without expanding your laboratory space! Built on the Discover<sup>®</sup> platform, the Explorer<sup>PLS</sup> System features the smallest footprint and fastest return on investment of any system on the market. Run multiple reactions unattended, optimize chemistries more efficiently, and spend more time designing syntheses than you do monitoring them. Explorer is the ideal solution to support small groups of chemists as a shared resource.



## Easy-to-Use

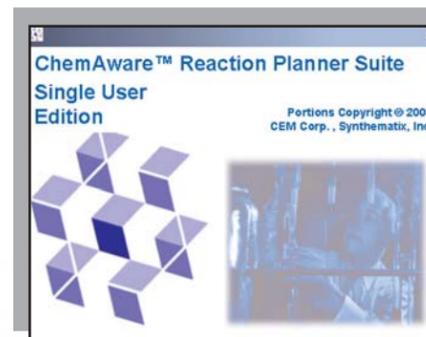
Using Explorer's ChemDriver<sup>™</sup> control program, chemists can spend their time designing new syntheses, expanding chemical diversity, and optimizing reaction conditions without the inconveniences of learning a new, complex software program. ChemDriver uses a series of software "wizards" with simple prompts that guide you through the programming of new methods and automation sequences.

Programming automated sequences is just as easy, just "drag and drop" methods onto the automation table map. Explorer really is the simplest automated synthesis system you will ever use - and the last one you'll need!

- **Translation Wizard<sup>™</sup> takes all of the difficulty out of translating conventional thermal methods to microwave methods**
- **Optimization Wizard<sup>™</sup> simplifies the process of optimizing critical chemistry parameters**
- **Batch Wizard makes batching samples in large automated routines simple and easy**

## Productive

Explorer handles all of the routine tasks necessary to execute a multitude of reactions each day, making your chemistry efforts more effective! Not only will you get more reactions completed, but because Explorer is on the job with you, your time is free to do what you do best - design new chemistries! Explorer's Focused Microwave technology ensures that you will be using the most productive microwave system on the market.



With the optional ChemAware<sup>™</sup> Reaction Planner, you get the added advantages of an included electronic notebook that simplifies report writing, captures all of the necessary data for your IP submittals, and puts over 5,000 reaction processes right at your fingertips. Search by structure, reaction condition, or any other critical parameter to facilitate your chemistries. All of this and yet Explorer is still the most cost-effective automated system on the market. Explorer expands your budget as well as capabilities.

## Flexible

Explorer features a sample deck with interchangeable racks, providing unlimited reaction capacity. Simply queue up additional racks for continuous processing to handle everything from quick reaction surveying to library production, and because it's based on the Discover platform, Explorer gives you access to all of the industry-leading modular accessories in the Focused Microwave line, such as real time reaction monitoring, scale up capabilities, and an integrated informatics package that includes an e-notebook.

- **Industry's only STAT feature, allowing you to interrupt automated routines in progress to process priority samples and automatically resume the previously programmed routine at the point of the interruption**
- **4 independent autosampler racks (additional racks are available)**
- **ChemDriver<sup>™</sup> operating software provides easy-to-use "wizards" to facilitate programming**
- **Compact design fits in a standard fume hood**
- **Program Explorer from the included PC via wireless or network connection**
- **Share your developed knowledge with the group down the hall or across the globe with the Enterprise addition of the ChemAware Reaction Planner Database**

Explorer's standard configuration includes the patented IntelliVent<sup>™</sup> Pressure System. IntelliVent offers the safest, as well as most affordable, choice available in pressure regulation. Designed to vent automatically should the pressure from the reaction rise above the normal operating limit, the IntelliVent sensor system will maintain a completely contained system while it safely releases the excess pressure.

No other system offers this level of assured safety for the operator and certainly not in an automated, unattended manner.

