



MARS™ 6 Extraction

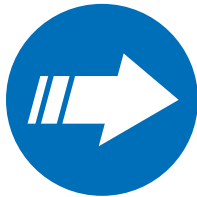
Microwave Extraction System





High throughput extraction for busy labs.

The MARS™ 6 brings an intelligent design and remarkable ease of use to extractions. With an industry-leading 2000 watts of installed power, it is the perfect tool for preparing samples for US EPA 3546, polymers, and more. The MARS 6 can easily extract up to 40 samples in a single batch using up to 85% less solvent than traditional methods. The MARS 6 provides the highest throughput and lowest cost per test of any extraction method used today.



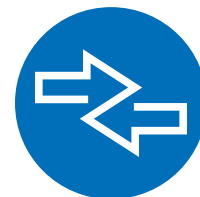
Fastest batch system available —
40 samples in 25 minutes.



Disposable inserts
for easy cleaning.



One Touch Technology®
methods make extraction easy.



Digestion and extraction
combined in one instrument.



Disposable Glass Inserts

Never wash vessels again.

Our MARSXpress Plus vessels allow for the use of disposable glass inserts that eliminate the need to wash vessels between sample runs, resulting in time savings. Furthermore, the glass insert protects the Teflon vessel from highly contaminated samples, eliminating the risk of carryover.

One Touch Technology®

Preinstalled methods, one touch away.

By selecting the One Touch icon on the MARS 6 touchscreen, you can choose from hundreds of preinstalled methods developed by CEM applications chemists. The system will automatically detect the type of vessel you are using, count the vessels, adjust the power, and perform the extraction for you. It couldn't be easier.







1

Select a Method

After the turntable is loaded with prepared sample vessels, simply select the proper method, and hit “Start”.

2

Matrix is Extracted (or Digested)

During the run, the MARS 6 will follow the method according to the selected parameters, including initializing, ramping, holding, cooling, etc. The MARS 6 applies microwaves to extract, or digest, the sample.

The turntable will rotate to allow the IR sensor to monitor the temperature of each sample.

3

Sample is Cooled

For user safety, when the run is complete, the MARS 6 will allow the vessels to cool in-unit.

After cooling, the sample is ready for further analysis.



Versatility

The MARS 6 can be used for extraction and digestion, making it a valuable tool in your sample prep tool bag. Every MARS 6 is pre-programmed with both methods, and has access to our worldwide support for both applications.

High Throughput Capabilities

Vessels designed with you in mind.

The MARS 6 can process up to 40 samples simultaneously, yielding the highest throughput of any system on the market. The simple three-piece vessel assembles in seconds. Disposable glass inserts allow you to prepare a second batch of samples while another is being processed, reducing total extraction time.



Reduced Solvent Consumption

Accelerated extraction process using less solvent.

The MARS 6 heats samples in a sealed vessel, allowing the use of solvents not accessible with traditional methods. By heating the solvent above its boiling point, a higher efficiency extraction is achieved with less solvent volume required.

The powerful MARS 6 microwave system can be utilized for a variety of extraction applications including:



Environmental



Food



Pharmaceutical



Consumer Products



Polymers



MARSXpress Vessels & Turntable

MARSXpress vessels are easy-to-assemble, three-piece vessels. This 40-place high-throughput vessel is available in 55 mL or 75 mL sizes. Sample sizes range from <1 – 20 g and solvent volumes can be as little as 5 mL.



MARSXpress Plus Vessels & Turntable

The 110 mL MARSXpress Plus vessel allows you to use disposable glass inserts to eliminate vessel cleaning, reduce sample cross contamination, and optimize technician time.



Disposable Glass Inserts

Optional disposable glass inserts for MarsXpress Plus vessels eliminate cross contamination and the need for vessel washing. They can help increase sample throughput by allowing samples to be prepared while another set is being extracted.



Torque Tool

One click is all you need to confidently seal MARSXpress and MARSXpress Plus vessels. Say goodbye to bulky and difficult-to-use wrenches and hello to the easiest way to close your vessels.



You get more than an instrument.

When you own a CEM instrument, you have access to a whole team of scientists and engineers that are ready to support you. We are here to make sure you succeed.

Extraction Solutions

Go to cem.com/mars-6-extraction to learn how the MARS 6 can increase throughput in your lab.

A screenshot of a web browser displaying the CEM website page for the MARS 6 Extraction system. The browser's address bar shows the URL cem.com/mars-6-extraction. The website header includes the CEM logo and navigation links for Products, Industries, Resources, and About. On the right side of the header, there are icons for search, user profile, shopping cart, and a document icon. The main content area features a large image of the MARS 6 extraction instrument on the left. To the right of the image, the text reads "Microwave Extraction System" followed by the heading "MARS 6 Extraction" and the subtext "High-throughput extraction for environmental samples." Below this text are two buttons: a white button with a question mark icon labeled "Questions?" and a blue button labeled "Request a Quote". On the far right, there is a vertical sidebar menu with a blue header "MARS 6 Extraction" and several menu items: "Overview", "Vessels", "Accessories", "Owner Content", "Media" (highlighted in blue), "MARS 6 Extraction Brochure", "News", and "View all Related Literature".



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