

MARS 1™

Microwave Digestion System



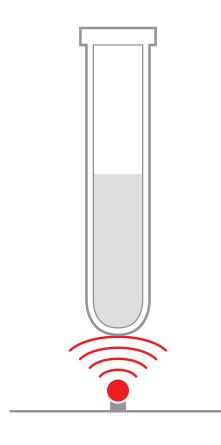




Strength and Intelligence

MARS 1 is engineered to perform in corrosive laboratory environments.

| Up to 12-vessel capacity. |
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| Non-metallic acid-resistant polymer casing. |
| Large multi-layered cavity — Teflon® coated high-grade 316 solid-steel |
| Spring-mounted pressure relieving door with safety interlocks. |
| Reactiguard sensor that monitors cavity for excessive venting. |
| Floor-mounted temperature and vessel counting sensors. |
| High capacity integrated exhaust system to remove fumes and assist in cooling vessels. |



IR Sensor Provides Full Control of the Digestion Process

The MARS 1 features a close-proximity-floor-mounted IR temperature sensor to provide superior temperature measurement and control. The sensor ensures exact power application based upon cavity load.

 Close proximity of sensor provides superior temperature measurement and control.

Intuitive Software with Built-In Methods

MARS 1 utilizes a touchscreen interface. Simply choose a CEM method or create your own and press *start*, MARS 1 does the rest.

The system automatically identifies the number of samples. Then delivers the precise power required to perform a complete and safe digestion.



Vessels



MARSXpress Vessel

The patented MARSXpress vessel revolutionized sample preparation over a decade ago. Its simple three piece design utilizes vent and reseal technology without springs. It is the perfect vessel for a wide variety of applications.

Available in 75 mL and 55 mL volumes in turntables holding 12 vessels.



Common Applications















COMPLETE CONTROL

Control all vessels using a contact-less IR sensor.



EASY TO USE

Choose a pre-existing method or simply program time and temperature.



PRECISE POWER

Superior waveguide technology.



VERSATILE

Accommodates one to twelve vessels.



VESSEL COUNTING SENSORS

Allows precise power delivery for one to twelve samples.



REACTIGUARD SECURITY

Automatically shuts off power if a disturbance is detected during a run.



CONSTRUCTION

Teflon® turntable weighs less than 4 kg and is HF resistant and corrosion proof.



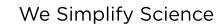
CAPACITY

Run a single sample, or up to 12 simultaneously, in a 55 mL or 75 mL volume vessel.



FAST COOLING

Open architecture promotes fast cooling.



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