SCP SCIENCE

PROVIDING INNOVATIVE SOLUTIONS TO ANALYTICAL CHEMISTS



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MiniWAVE

Microwave Digestion Made Easy

Order one controller and up-to four digestion modules

Powered by a 1000 Watt magnetron

Compressed air control module

Factory calibrated vent and seal safety pressure caps

Build the right system for your sample load
Fast digestion times
Cool your sample loads under 5 minutes
Eliminate the risk of runaway samples



CONCEPT

*Min***WAVE** is a top-loading, compact, microwave digestion system consisting of a touch screen controller and up-to 4 digestion inter-connecting modules. Each module is able to digest up to 6 samples simultaneously in 75 ml PFA Teflon® or Quartz Vessels. Using two or more modules, it is possible to run completely different sample types on each module using sample specific operating conditions.

An IR sensor monitor sample temperature of each vessel. A single 1000 Watt magnetron is centrally located to provide even microwave energy. With this unique design, microwave energy is evenly distributed throughout the digestion chamber to provide reproducible results, sample to sample. Ideal for environmental, agricultural, petroleum, geological, food and biological samples.





SAFETY









Fast cooling and safe venting

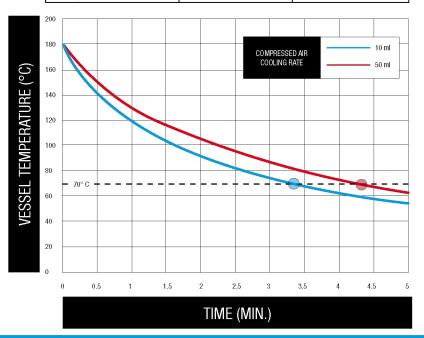
Simple to install

No tools required to tighten

Once sample digestion is completed, the compressed air module is activated to cool samples quickly (see table below). For example, cool a 10 ml sample from 180 °C to 70 °C, in just 3.4 minutes. Similarly, cool a 50 ml sample from 180 °C to 70 °C, in 4.3 minutes. These laboratory tests confirm optimal sample cooling time resulting in the overall fastest turnaround time in the market (supply pressure at 5 atm.).

COOLING FROM 180 °C TO 70 °C

	10 ml Volume	50 ml Volume
Exhaust Blower	6.5 minutes	10.1 minutes
Compressed Air	3.4 minutes	4.3 minutes





METHODS

PERATION

Factors programmed US EPA (3015, 3051, 3052) and DIN methods

Add multiple temperature profiles of "Time to Temperature" and "Time at Temperature"

Save methods to an USB stick

USP 232 / 233 compliant

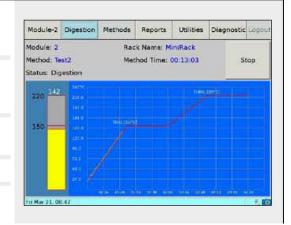
Copy or create methods to customize your application

Initiate these methods at the touch of a button.

Offers single or multi-step digestion methods.

Store and access a library of methods at your fingertips.

Unlimited number of methods may be saved.



Select between "Operator" or "Administrator"

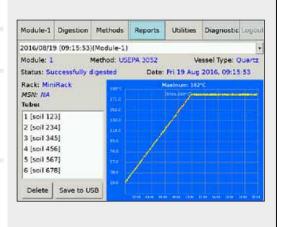
Simple, single key, touch pad and drop down windows

View and generate detailed reports

Prepare your standard methods for the lab easily. Input and log the reagent(s) used in each method (for information use only) Set priority level for different people.

Create, edit and copy factory programmed methods.

Provide a history of each run using the actual temperature profile of each batch. Includes graphical representation of the run with a time stamp.



SPECIFICATIONS

Ports/Printer: USB / Ethernet.

Overall Instrument Dimensions

(Width x Depth x Height)

MiniWAVE module:

 $43~\text{cm}\times36~\text{cm}\times48~\text{cm}$ (16.8 in. \times 14.0 in. \times 18.9 in.)

Controller module:

28 cm x 22 cm x 20 cm (11.0 in. x 8.6 in. x 7.9 in.)

Weight

*Mini***WAVE** module: 30 kg (65 lbs)

Controller module: 3 kg (6 lbs)

*Mini***WAVE** rack: 3 kg (6 lbs)

Electrical Requirements 110V and 220V systems

The number of modules that can be connected depends on the current available.

1) 100-125VAC, 50/60Hz, 13A.

2) 200-240VAC, 50/60Hz, 7A.

Connect up to 4 modules via USB to the Controller. Detachable power cord supplied for each Module.

Microwave Energy

2.45 GHz, 1000 Watts,

Maximum controllable temperature to 200 °C.

Contact **SCP SCIENCE** for further information.

SPECIFICATIONS







EU Users: Contact your local distributor for disposal instructions.





APPLICATION NOTES LIBRARY

Are you digesting environmental, metallurgical, food, plant or oil samples in your laboratory and not obtaining desired results? Contact our Applications' Specialist to answer your questions and provide insight to increase sample throughput, optimize recovery levels or improve methodologies. We are dedicated to finding a solution to your sample digestion needs.

A growing library of *Mini***WAVE** Application Notes is available. Each of the Notes demonstrate the ease of use and effectiveness of *Mini***WAVE**. Recent Application Notes include:

- The Digestion of Agricultural Leaves
- The Digestion of Polypropylene Plastic
- The Digestion of Used Oil
- The Digestion of Basalt Rock
- The Digestion of Waste Water

Contact your local sales representative or distributor for more information.

-MINIWAVF-BROC-3.0-F

ORDERING INFORMATION

To place an order, choose the appropriate *Mini***WAVE** system, one or more Racks, and one Controller. The Touch Screen Controller will operate with up-to four *Mini***WAVE** microwave digestion modules.

COMPONENTS

1	MiniWAVE	Microwave Digestion Module, 6 Position, 110v	Each	010-600-016
2	MiniWAVE	Microwave Digestion Module, 6 Position, 220v	Each	010-600-018
3	Controller	MiniWAVE Controller	Each	010-600-019
4	Rack	MiniWAVE Rack 6 Place, with 75 ml Quartz Vessels	Each	010-600-035
5	Rack	MiniWAVE Rack, 6 Place, with 75 ml Teflon® Vessels	Each	010-600-037

ACCESSORIES AND REPLACEMENT PARTS

Vessels	Quartz Vessel, 75 ml, Calibrated	Pk/6	010-600-071
Vessels	Teflon® Vessel, 75 ml	Pk/6	010-600-073
Support Sleeves	Support Sleeves for 75 ml Teflon® Vessels	Pk/6	010-600-074
Caps	PFA caps for Quartz Vessels	Pk/6	010-600-060
Caps	PFA caps for Fluoropolymer Vessels	Pk/6	010-600-061
Venting Tool	To manually release the safety cap pressure after digesting samples	Each	010-600-070
Weighing Support	Weighing Support for Microwave Vessel	Each	010-600-110
Mixing Cap	Mixing Cap for Microwave Vessel	Each	010-600-100
Transfer Rack Stand	Transfer Rack Stand	Each	010-600-040
Start-up Kit	Contains exhaust hose (010-600-081) plus 010-600-110 / 100 / 020 / 070 / 040	Each	010-600-120



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