

AA, ICP-OES, ICP-MS



MPS 320 Microwave Digestion System

MPS 320™ Microwave Digestion System	
Power supply	220-230V AC - 50/60 Hz
Maximum amperage draw	16A
Installed microwave power	2000W from 2 magnetrons (2 x 1000W)
Magnetron frequency	2.45GHz
Microwave output power	maximum output 1500W (limited for the safety and longevity of the magnetron)
Microwave power control	Boostless control across the range, adjustable in 1% increments
Control of temperature	Direct Temperature Control™ (DTC); in real time, measures the actual temperature of the shows in each single container (50°C to 310°C)
Control of depression	Direct Control™ pressure (DPC); Optical measurement system of sample pressure no contact for the reference vessel (5 bar to 110 bar) with: <ul style="list-style-type: none"> • Calibration of cap of single pressure when using only one top CPD in rotor position 1, or • Calibration of the cap multiple pressure when using 2-8 (MR-100) or 2-16 (MR-50) DPC caps on the rotor
Ventilation sensor	NOx gas detection sensor in the exhaust. The notification of the situation is displayed of ventilation after of the run
Weight	59kg
Dimensions (W x D x H)	30 x 24 x 19 inches (76 x 61 x 48 cm)
Cavity and lid	Steel construction stainless with coating of heat-bonded fluoropolymer (PFA – perfluoroalkoxy polymer)
Access to oven	Rotating top covering rear with safety switches of hardware and software. The samples They are inserted individually from above to facilitate the access to the samples.
Use of containers of digestion	Simple, sturdy containers placed individually in the oven in any number from 2 to 8 in setting 8 positions; 2-16 in setting 16 positions; 4, 8, 16 or 32 in setting of 32 positions. It is recommended to have a minimum load of four containers and a minimum of 20 mL (volume by rotor) by digestion.
Ventilation due to overpressure	Gas containment manifold integrated

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The MPS 320™ Microwave Digestion System <i>keep going...</i>	
Control of the system	OSLinux running on a PowerPC™ processor Pre-installed library of tested methods freely extensible by the user Touch screen control with real-time display of conditions of digestion Export of data of digestion through USB Remote control complete instrument and data access via an Ethernet connection Supported languages: English, German, French, Italian, Spanish, Russian, Chinese and Japanese
Complies with	EMC safety and emissions compliance Safety and emissions compliance by NRTL and FCC REACH WEEE RoHS
Device of display/input	Touch screen to everything color
I/O Ports	USB, Ethernet (RJ45)
Temperature atmosphere	15 to 35°C
RH maximum	85%, no condensation
Level noise	<70 dBA

Digestion vessels: MR-50 permanently sealed 50 ml (40 bar)	
Container design	Construction solid of TFM™ fluoropolymer for body, pressure seal and screw cap
Rotor capacity	16 containers
Volume	50mL
Pressure rating recommended	40 bar
Test pressure of bowl	60 bar
Temperature range functioning	Ambient at 230°C
Protection against overpressure	TFM™ Seal, Metal Rupture Disc
Warranty	24 months

Digestion vessels: MR-85 Auto-ventilation 85 mL (20 Bar)	
Container design	TFM™ fluoropolymer construction for body, pressure seal and screw cap with sleeve pressure reinforced with fiberglass
Rotor capacity	16 or 32 containers
Volume	85mL
Pressure rating recommended	20 bar
Test pressure of bowl	50 bar
Temperature range functioning	Ambient at 230°C
Protection against overpressure	Automatic ventilation
Warranty	12 months

Digestion vessels: MR-100 High Pressure 100 mL (100 Bar)

Container design	Solid TFM™ fluoropolymer construction for body, pressure seal, and powder-coated screw cap. TFM™ fluoropolymer and ceramic pressure jacket inserts
Rotor capacity	8 containers
Volume	100mL
Pressure rating recommended	100 bar
Test pressure of bowl	150 bar
Temperature range functioning	Ambient at 260°C
Protection against overpressure	TFM™ Seal, Metal Rupture Disc
Warranty	24 months

Accessories: Vacuum pump

Guy	Chemical Resistant Diaphragm Pump
Maximum flow	22L/min
Pressure minimum	100 mbar
Diameter output	8 millimeters
Power supply	115V - 50/60 Hz or 220V - 50/60 Hz
Warranty	12 months

Accessories: External fan

Guy	Exhaust fan external
Flow of air	≥ 1.8 m ³ /min, > 65 cfm
Power supply	230V - 50/60Hz
Warranty	12 months

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