

Titan MPS Microwave Sample Preparation System Specifications



Titan MPS™ Microwave Sample Preparation System

Power Supply	230V AC - 50/60 Hz
Max Amperage Draw	16A
Installed Microwave Power	2000W from 2 magnetrons (2 x 1000W)
Microwave Output Power	1500W peak output (limited for magnetron safety and longevity)
Microwave Power Control	Unpulsed control over entire range, adjustable in 1% increments
Temperature Control	DTC™ (Direct Temperature Control™); in real-time, measures the actual sample temperature in each individual vessel
Pressure Control	DPC™ (Direct Pressure Control™); contact-free, optical sample pressure measurement system for reference vessel
Weight	53 kg
Dimensions (WxDxH)	21 in. x 25 in. x 17 in.
Cavity & Lid	Stainless steel construction with heat-bonded fluoropolymer (PFA - Perfluoroalkoxy) coating
Oven Access	Rear hinged top lid, samples inserted from above for easy sample access
Digestion Vessel Usage	Simple, rugged vessels placed individually in the oven in any number from 2-8 in 8 position configuration; 2-16 in 16 position configuration
Digestion Vessel Capacity	8 and 16 vessel capacities
Overpressure Venting	Integrated Gas Containment Manifold
System Control	Linux operating system running on a PowerPC™ processor Pre-installed library of tested methods freely extendable by the user Touchscreen control with real-time display of digestion conditions Digestion data export via USB or Ethernet Full remote instrument control and data access via Ethernet connection English, German, French, Italian, Spanish languages supported

Complies With	CE Safety and EMC emissions compliance NRTL and FCC safety and emissions compliance REACH WEEE RoHS
Display/Input Device	Full color touchscreen
I/O Ports	USB, Ethernet (RJ45)
Ambient Temperature	15 to 35°C
Relative Humidity Max	85%, non-condensing
Noise Level	< 70 dBA

Titan MPS Standard 75 mL (40 Bar) Digestion Vessel

Vessel Design	Solid TFM™ fluoropolymer construction for body, pressure seal and screw cap
Volume	75 mL
Recommended Pressure Rating	40 Bar
Vessel Test Pressure	80 Bar
Operating Temperature Range	Ambient to 260 °C
Overpressure Protection	Metal Rupture Disc
Identification	Each vessel individually serialized
Warranty	12 months

Titan MPS High Pressure 100 mL (100 Bar) Digestion Vessel

Vessel Design	Solid TFM fluoropolymer construction for body, pressure seal and screw cap with TFM fluoropolymer liner and ceramic pressure jacket inserts
Volume	100 mL
Recommended Pressure Rating	100 Bar
Vessel Test Pressure	150 Bar
Operating Temperature Range	Ambient to 260 °C
Overpressure Protection	Metal Rupture Disc
Identification	Each vessel individually serialized
Warranty	12 months

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