GREAT RESULTS BEGIN WITH GOOD PREPARATION





PerkinElmer offers the Titan MPS microwave sample preparation systems, consumables and accessories for your lab needs.

Microwave digestion provides the high-temperature, high-pressure digestion needed to deliver quick, complete sample digestion of the most difficult samples and allow for total elemental analysis. Using ultra-clean sealed digestion vessels, the Titan MPS avoids loss of volatile analytes and prevents sample contamination from the working environment. With its high performance, microwave digestion is ideal for nearly any sample including those from the challenging mining/geologic, metallurgical, environmental, petrochemical and pharmaceutical industries.

The Titan MPS microwave sample preparation system delivers the instrument-ready solutions you need for high throughput and reliable results. Using our Direct Pressure Control™ (DPC) and Direct Temperature Control™ (DTC) sensing technologies, the Titan MPS system accurately monitors digestion reactions and the sample temperature in each digestion vessel to provide outstanding reaction control and deliver consistent digestion results.

With the Titan MPS microwave sample preparation system, we're delivering on the promise of a simple, safe, cost-effective microwave – one that provides the quick return on investment that labs are looking for in these times of constrained budgets. And it's backed by PerkinElmer, the one-stop, go-to resource for all things atomic spectroscopy. With a team of support individuals who understand, in a deep-seated way, the science behind the goals your lab is trying to achieve.

The Titan MPS microwave sample preparation system. Yes, it's a microwave. But we think it's a whole lot more.

Features:

- A top-loading system that allows the easy loading and removal of vessels
- The DTC and DPC optical temperature and pressure reaction monitoring technologies and a cylindrical oven chamber ensure the most reproducible results
- Vessels are reusable and guaranteed for one year, for considerable savings on consumables
- Integrated gas collection system efficiently vents the oven chamber to keep it free of gas or acidic vapors.
- Color touch-screen controller simplifies programming, data storage, and reaction control.
- The PFA-coated stainless steel body and lid, safety interlocks and unique vessels deliver the highest level of operator safety and unprecedented corrosion resistance



Titan MPS Systems



Before you prepare your first sample, you'll notice the difference: The Titan MPS is a top-loading microwave sample preparation system protected by hardware interlocks to ensure safety during operation. And it's simple to load and unload samples, which keeps everyone more productive — and saves your lab time and money

Description	Part No.
Titan MPS 16 Position, (230V 50/60Hz)	N3130100

Includes: 16 position turntable, gas containment manifold, 16 standard pressure 75 mL digestion vessels, 15 vessel caps without pressure sensor, 1 vessel cap with pressure sensor, a lip seal forming tool, exhaust hose, consumables for approximately 500 runs, and power cord (US)
Weight 53 kg

Dimensions (WxDxH) 21 in. x 25 in. x 17 in.



 Description
 Part No.

 Titan MPS 8 Position, (230V 50/60Hz)
 N3130110

Includes: 8 position turntable, gas containment manifold, 8 high pressure 100 mL digestion vessels, 8 TFM sample vessel inserts, 8 ceramic pressure jackets, 7 Vessel Caps without pressure sensor, 1 vessel cap with pressure sensor, a vessel opening station, a lip seal forming tool, exhaust hose, consumables for approximately 500 runs, and power cord (US) Weight 53 kg

Dimensions (WxDxH) 21 in. x 25 in. x 17 in.

System Accessories



Description	Part No.
External Exhaust System 230V 50/60 Hz	N3131009

Optional accessory for exhausting Titan MPS oven cavity in laboratories that do not have exhaust systems. Includes one 1.5 m exhaust tube. ID = 76 mm, Od = 82 mm. Includes; power cord (US)



Description	Part No.
Exhaust Tube 1.5 m (one included with Titan)	N3134015
Exhaust Tube 3 m (optional if longer is required)	N3134064



Description	Part No.
Titan MPS Bench	N0777900

The Titan MPS bench is a heavy-duty Chemsurf laminated rolling cart. The top working surface is constructed with durable Chemsurf material, a chemically-resistant laminate specifically designed for applications in laboratories with routine exposure to chemicals. A full lower shelf with durable Chemsurf laminate provides storage space for digestion vessels and other Titan MPS spares and accessories. Locking 4" diameter casters provide stability and easy movement. Dimensions: 32"D x 30"W x 29"H

Turntables



Description	Part No.
16 position turntable with Standard 75 mL (40 Bar) Digestion Vessels, with DPC (complete)	N3131010
16 position turntable with Standard 75 mL (40 Bar) Digestion Vessels, without DPC (complete)	N3131005
16 position turntable for Standard 75 mL (40 Bar) Digestion Vessels (turntable only)	N3131006



Description	Part No.
8 position turntable with High Pressure 100 mL (100 Bar) Digestion Vessels, with DPC (complete)	N3131011
8 position turntable with High Pressure 100 mL (100 Bar) Digestion Vessels, without DPC (complete)	N3131007
8 position turntable for High Pressure 100 mL (100 Bar) Digestion Vessels (turntable only)	N3131008

Vessels and Spares











Description	Quantity	Part No.
Standard 75 mL (40 Bar) Digestion Vessel with DPC (Complete) Consists of: Pressure seal, Vessel cap with DPC, Rupture disc and Vessel base	1	N3132010
Standard 75 mL (40 Bar) Digestion Vessel without DPC Consists of: Pressure seal, Vessel cap, Rupture disc and Vessel base	1	N3132009
Standard 75 mL (40 Bar) Digestion Vessel TFM Base (base only)	1	N3132011
TFM Cap for Standard 75 mL (40 Bar) Digestion vessels without pressure sensor	1	N3132012
TFM DPC Cap for Standard 75 mL (40 Bar) Digestion vessels with pressure sensor	or 1	N3132013

Description	Quantity	Part No.
High Pressure 100 mL (100 Bar) Digestion Vessel without DPC (complete) Consists of: Pressure seal, Vessel cap, Rupture disc, TFM Vessel insert, Ceramic pressure jacket and Vessel base	1	N3133012
High Pressure 100 mL (100 Bar) Digestion Vessel with DPC (complete) Consists of: Pressure seal, Closure cap with DPC, Rupture disc, TFM Vessel in: Ceramic pressure jacket and Vessel base	1 sert,	N3133013
High Pressure 100 mL (100 Bar) Digestion Vessel Base (base only)	1	N3133014
TFM Cap for High Pressure 100 mL (100 Bar) Digestion Vessels without pressure sensor	1	N3133015
TFM DPC for high pressure 100 mL (100 Bar) Digestion Vessels with pressure sensor	1	N3133016

Consumable Run Kits



DescriptionPart No.2500 Run Kit for Standard 75 mL (40 Bar) Digestion VesselsN3132000Consumables for approximately 2500 digestions with Standard 75 mL (40 Bar) Digestion VesselsIncludes: 10 Pressure Seals (N3132002), 4 Rupture Cap Discs (N3132001), and 5 Lip Seal Rings of the Gas Containment Manifold (N3134000)



DescriptionPart No.2500 Run Kit for High Pressure 100 mL (100 Bar) Digestion VesselsN3133024Consumables for approximately 2500 digestions with High Pressure 100 mL (100 Bar) Digestion VesselsIncludes 10 Pressure Seals (N3133023), 7 Rupture Cap Discs (N3133022),50 PEEK Ring Nuts (N3133011), and 5 Lip Seal Rings of the Gas Containment Manifold (N3134000)

Part No.

Spares and Replacement Parts

Description





Rupture Disc for Standard 75 mL (40 Bar) Digestion Vessels Made of aluminum, set of 25 pcs	N3132001
Rupture Disc for High Pressure 100 mL (100 Bar) Digestion Vessels Made of titanium, set of 10 pcs	N3133022
Pressure Seal for Standard 75 mL (40 Bar) Digestion Vessels Made of TFM, set of 10 pcs	N3132002
Pressure Seal for High Pressure 100 mL (100 Bar) Digestion Vessels Made of TFM, set of 5 pcs	N3133023
DPC Glass Prism for Standard 75 mL (40 Bar) Digestion Vessel	N3132004
DPC Glass Prism for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133005
DPC Glass-Ring for Standard 75 mL (40 Bar) Digestion Vessel	N3132003
DPC Glass-Ring for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133003
DPC Polarization foil for Digestion Vessel caps with pressure control for Standard 75 mL (40 Bar) and High Pressure 100 mL (100 Bar) Digestion Vessel, set of 24 pcs	N3132005
DPC TFM Cap Insert for Standard 75 mL (40 Bar) Digestion Vessel	N3132006
DPC TFM Cap Insert for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133006
DPC Clamp Screw for Glass Prism for Standard 75 mL (40 Bar) Digestion Vessel	N3132007
DPC Clamp Screw for Glass Prism for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133007
DPC Viton O-Ring (25 x 3 mm) for Digestion Vessel caps with pressure control for Standard 75 mL (40 Bar) Digestion Vessel, qty 1. Two are required per vessel cap	N3132008
DPC O-Ring for Digestion Vessel Caps with pressure control for High Pressure 100 mL (100 Bar) Digestion Vessel, qty 1. Two are required per vessel cap	N3133008



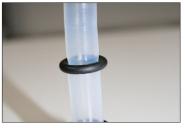


DPC Clamp Screw for Glass Prism for Standard 75 mL (40 Bar) Digestion Vessel	N3132007
DPC Clamp Screw for Glass Prism for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133007
DPC Viton O-Ring (25 x 3 mm) for Digestion Vessel caps with pressure control for Standard 75 mL (40 Bar) Digestion Vessel, qty 1. Two are required per vessel cap	N3132008
DPC O-Ring for Digestion Vessel Caps with pressure control for High Pressure 100 mL (100 Bar) Digestion Vessel, qty 1. Two are required per vessel cap	N3133008
Description	Part No.
TFM Sample Vessel Insert for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133009
. , ,	
Description Ceramic Pressure Jacket for High Pressure 100 mL (100 Bar) Digestion Vessel	Part No. N3133010
•	Part No. N3133010 Part No.
Ceramic Pressure Jacket for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133010
Description	N3133010 Part No.
Ceramic Pressure Jacket for High Pressure 100 mL (100 Bar) Digestion Vessel Description PEEK Ring Nut for High Pressure 100 mL (100 Bar) Digestion Vessel closure cap. (Left handed threads)	N3133010 Part No. N3133011

Gas Containment Manifold Spares



Description	Part No.
End Cap Plug for Gas Containment Manifold Sealing plug for 8 and 16 position Gas Containment Manifold to seal the gas collection system at unused vessel positions	N3134004
Clamping Screw (PTFE) for the top seal of the 8 and 16 position Gas Containment Manifold	N3134002



Description	Part No.
Lip Seal Ring of the Gas Containment Manifold	N3134000
PTFE Sealing Ring for use with 8 and 16 position Gas Containment Manifolds Seals the top PFA gas tube to the Gas Containment Manifold	
Tube for connection of vessel to Gas Containment Manifold (PTFE) PTFE connecting tube for connection to digestion vessels with 8 and 16 position Gas Containment Manifold	N3134005
Connector for Gas Containment Manifold to Digestion Vessel PTFE connector for use with 8 and 16 position Gas Containment Manifold	N3134007
Gas Containment Manifold PFA Vent Line 1M (O-Ring in picture not included)	N3134014
Gas Containment Manifold Vent Line replacement O-Ring (Qty. 2)	N3134072

Accessories



Description	Part No.
High Pressure 100 mL (100 Bar) Digestion Vessel opening station	N3133017



Description	Part No.
Single lip seal forming tool for Standard 75 mL (40 Bar) Digestion Vessel pressure seals	N3132015
Eight position lip seal forming tool for Standard 75 mL (40 Bar) Digestion Vessel pressure seals	N3132014
Forms up to 8 seals simultaneously	



Description	Part No.
Eight position lip seal forming tool for High Pressure 100 mL (100 Bar) Digestion Vessel pressure seals	N3133018
Forms up to 8 seals simultaneously	



Description	Part No.
Single lip seal forming tool for High Pressure 100 mL (100 Bar) Digestion Vessel pressure seals	N3133019
Forms I seal	

Accessories Continued





Description	Part No.
PTFE 2 mL sample weighing cup for use in Standard 75 mL (40 Bar) or High Pressure 100 mL (100 Bar) Digestion Vessel, qty. 1	N3134009
PTFE 2 mL sample weighing cup for use in Standard 75 mL (40 Bar) or High Pressure 100 mL (100 Bar) Digestion Vessel, qty. 16	N3134010

Description	Part No.
Vessel cap disassembly tools for Standard 75 mL (40 Bar) Digestion Vessel	N3134011
Vessel cap disassembly tools for High Pressure 100 mL (100 Bar) Digestion Vessel	N3134012

PerkinElmer, Inc. 940 Winter Street Waltham, MA 02451 USA P: (800) 762-4000 or (+1) 203-925-4602 www.perkinelmer.com

