

NexION™ 300 ICP-MS



Sampler and Skimmer Cones

Precision-designed and manufactured, large-orifice sampler and skimmer cones provide superior long-term stability and resist clogging, allowing analysis under both high and low sample-uptake conditions. Nickel is a very rugged, long-lasting material for the majority of sample types, while platinum is the material of choice for more corrosive samples. They have been designed to maximize signal stability and to minimize clogging during extended runs of samples containing high dissolved solids.



Nickel Sampler and Skimmer Cones

Type	Part No.
Sampler	W1033612
Skimmer	W1026356



Platinum Sampler and Skimmer Cones

Type	Part No.
Sampler	W1033614
Skimmer	W1026907



Hyper Skimmer Cone

Type	Part No.
Hyper Skimmer	W1033995

Replacement Parts

Description	Part No.
Sampler Gasket	WE012989
Hyper Skimmer O-Ring	09902123
Hyper Skimmer Screw	09919737
Cone Removal Tool	W1034694

Torches



Demountable Quartz Torch

The EasyGlide™ torch mount and alignment system for the NexION ICP-MS is a demountable design that incorporates a quartz torch with a fully replaceable sample injector made of fused alumina, quartz or sapphire.

Part No.

N8122006



High Efficiency Demountable Quartz Torch

Operates at 25% reduced argon gas flows compared to the standard Demountable Quartz Torch (N8122006).

Part No.

W1008384

Nebulizers



MEINHARD® Nebulizers

The MEINHARD® Concentric Nebulizer reflects exacting standards in design and manufacturing. Its advantages include simplicity of design and operation, reproducible and self-aligning aerosol, and close fabrication control. They provide excellent sensitivity and precision for aqueous solutions and samples with few dissolved solids (less than 1%). MEINHARD® Nebulizers are self-aspirating.

Model	Material	AR Flow Rate	Uptake Rate	Part No.
Type A	Quartz	1.0 L/min	0.5 mL/min, 50 psig	N8145011
Type C	Glass	1.0 L/min	0.5 mL/min, 50 psig	N8145012

Spray Chambers

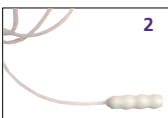


The Cyclonic Spray Chamber relies on momentum to efficiently and quickly remove the larger droplets from the sample mist decreasing any opportunity for occlusion or agglomeration of the smaller droplets. The result is higher efficiency, better precision and faster washouts than other spray chamber designs. For use with ball joint injectors.

- Decreased sample introduction system installation and optimization time due to the preset nature of the spray chamber/nebulizer combination
- More samples per hour due to minimal dead volume and efficient draining

Type	Part No.
Quartz Cyclonic Spray Chamber	N8145013
Glass Cyclonic Spray Chamber	N8145014
PFA Spray Chamber with PFA End Cap (Requires PFA body injector N8122411 or N8122412 or N8122413)	N8142000

Adapters and Fittings



Adapters and Fittings

Description	Part No.
1 Nebulizer Fitting	N8145016
2 Spray Chamber Drain Fitting	N8145015
3 Male barb CTFE Fitting	N8145017
4 Female barb CTFE Fitting	N8145018

Injectors



Alumina Injectors for use with Ryton® sample introduction system

Alumina injectors provide economical HF resistance. They are vacuum baked to reduce contamination. For use only with HF resistant (Ryton®) sample introduction system.

- 2.0 mm i.d. for aqueous solutions and less volatile organic solvents
- 1.5 mm i.d. for reduced sample loading
- 0.85 mm i.d. for use with volatile organic solutions

Dimension	Part No.
2.0 mm i.d.	N8126041
1.5 mm i.d.	N8126040
0.85 mm i.d.	N8126039



Sapphire Injectors for use with Ryton® sample introduction system

Dimension	Part No.
2.0 mm i.d.	N0695495



Quartz Injectors for use with Ryton® sample introduction system

Dimension	Part No.
1.2 mm i.d.	N0681631
1.6 mm i.d.	00473292
2.0 mm i.d.	N8125029



Quartz Ball Joint Injectors (standard with NexION ICP-MS)

Dimension	Part No.
0.85 mm i.d.	WE027030
1.5 mm i.d.	WE027005
2.0 mm i.d.	WE023948



Support Adapters

Description	Part No.
Cassette Torch Injector Support Adapter for non-ball joint injectors	W1013266
Cassette Torch Injector Support Adapter for ball joint injectors	W1012406

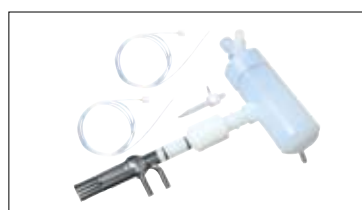
Sample Introduction Kits



PC³ / PC³-LT Peltier Coolers

The PC³ has two preset temperatures +2 °C / -5 °C and is ideal when running aqueous or aqueous/organic mixtures. The PC³-LT operates at -20 °C when running 100% volatile organic solvents to reduce the solvent load on the plasma. Includes Quartz spray chamber with additional gas port.

Description	Temperature	Spray Chamber	Part No.
PC ³ Organic Sample Introduction Kit	+2 °C / -5 °C	Quartz	N8142003
PC ³ -LT Organic Sample Introduction Kit	+2 °C / -20 °C	Quartz	N8145099



Other Sample Introduction Kits

Description	Part No.
PFA-Platinum HF-Resistant Sample Introduction Kit	N8142001
PFA-Sapphire HF-Resistant Sample Introduction Kit	N8142002
HF Sample Introduction Kit (Ryton®)	N8140507

Detectors



SimulScan Dual-Stage Detector

The dual-stage detector is an integral part of the NexION 300 ICP-MS SimulScan™ system. This electron multiplier measures both high- and low-level analytes simultaneously. This conserves valuable or limited samples, eliminates the need to perform time-consuming sample dilutions and allows you to quickly characterize unknown samples.

Description	Part No.
NexION 300 ICP-MS Detector	N8145000

Tubing



Peristaltic Pump Tubing

Description	i.d. (mm)	Stop Colors	Part No.
Santoprene®	1.30	Gray/Gray	N0777444
Flared PVC	0.38	Green/Orange	N0777042

Additional Tubing

Description	Part No.
Sample Uptake Tubing (cm)	WE024375
Drain Tubing (feet)	02506495
Torch Box Drain Assembly	N8140506

Standards

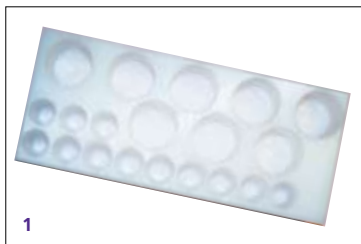


Standards

Description	Part No.
Solution – Rinse	N8145050
Solution – Setup	N8145051
Solution – KED Setup	N8145052
Solution – NexION 300 ICP-MS Dual Detector	N8145059
Solution – AFT Single-Element	N8145060
Solution – AFT Multi-Element	N8145061
Internal Standard Mix	N9303832
5-10% HNO ₃ 10 µg/mL: ⁶ Li, Sc, Ge, Y, In, Tb, Bi 100 mL	
Multi-Element Internal Standard	N9303834
2% HNO ₃ 10 µg/mL: Bi, Ho, In, ⁶ Li, Sc, Tb, Y 100 mL	
Quality Control Standard – 21 Elements	N9300281

Visit www.perkinelmer.com/supplies for our complete selection of Inorganic Standards.

Other Replacement Parts



Replacement Parts

Description	Part No.
Metal Spill Tray for vacuum pump	N8145022
UV Shield/Spray Chamber Nut	W1037267
Instrument Filter (left)	W1036712
Instrument Filter (back right)	W1036713
Fluid – Fomblin® GV80 1 L	N8145003
1 NexION Sample Tray	N8141206

NexION Consumables Kits



NexION 300Q/X/D Consumables Kit

Part No.

N8140513

Typical one year's supply of consumables. Consists of the following parts:

Description	Qty.	Part No.
Demountable Quartz Torch	2	N8122006
Load Coil	1	WE021816
Quartz Ball Joint Injector 2.0 mm i.d.	2	WE023948
Cassette Torch Injector Support Adapter for Ball Joint Injectors	1	W1012406
Glass Cyclonic Spray Chamber	1	N8145014
Nickel Skimmer Cone	2	W1026356
Nickel Sampler Cone	2	W1033612
Hyper Skimmer Cone	1	W1033995
Sampler Cone Gasket	1	WE012989
Hyper Skimmer O-Ring	2	09902123
Hyper Skimmer Screw	2	09919737
Santoprene® 1.30 mm Gray/Gray Pump Tubing	4	N0777444
Flared PVC 0.38 mm Green/Orange Pump Tubing	4	N0777042
Drain Tubing (feet)	6	02506495
Sample Uptake Tubing (cm)	12	WE024375
Instrument Filter (left)	1	W1036712
Instrument Filter (back right)	1	W1036713
Spray Chamber Drain Fitting	2	N8145015
Nebulizer Fitting	2	N8145016
Male Barb CTFE Fitting	2	N8145017
Female Barb CTFE Fitting	2	N8145018



NexION 300S Consumables Kit

Part No.

N8140514

Typical one year's supply of consumables. Consists of the following parts:

Description	Qty.	Part No.
Demountable Quartz Torch	2	N8122006
Load Coil	1	WE021816
Quartz Ball Joint Injector 2.0 mm i.d.	2	WE023948
Cassette Torch Injector Support Adapter for Ball Joint Injectors	1	W1012406
Quartz Cyclonic Spray Chamber	1	N8145013
Platinum Skimmer Cone	1	W1026907
Platinum Sampler Cone	1	W1033614
Hyper Skimmer Cone	1	W1033995
Sampler Cone Gasket	1	WE012989
Hyper Skimmer O-Ring	2	09902123
Hyper Skimmer Screw	2	09919737
Santoprene® 1.30 mm Gray/Gray Pump Tubing	4	N0777444
Flared PVC 0.38 mm Green/Orange Pump Tubing	4	N0777042
Drain Tubing (feet)	6	02506495
Sample Uptake Tubing (cm)	12	WE024375
Instrument Filter (left)	1	W1036712
Instrument Filter (back right)	1	W1036713
Spray Chamber Drain Fitting	2	N8145015
Nebulizer Fitting	2	N8145016
Male Barb CTFE Fitting	2	N8145017
Female Barb CTFE Fitting	2	N8145018

For a complete listing of consumables and supplies, please visit www.perkinelmer.com/supplies

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