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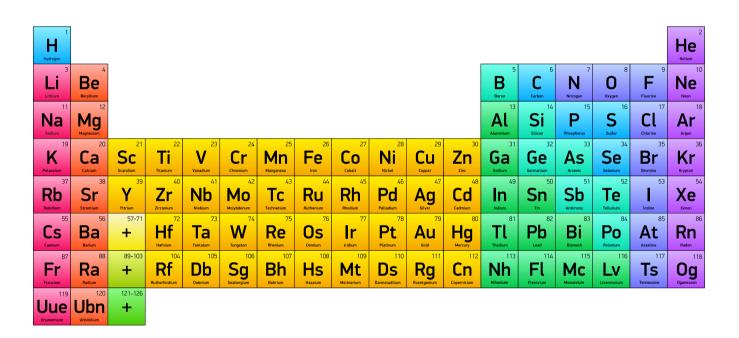
INTERACTIVE PDF





What is Atomic Spectroscopy?

Atomic spectroscopy is the technique for determining the elemental composition of an analyte by its electromagnetic or mass spectrum. Several analytical techniques are available (Atomic Absorption [AA], Inductively Coupled Plasma Optical Emission Spectroscopy [ICP-OES], Inductively Coupled Plasma Mass Spectrometry [ICP-MS]), and selecting the most appropriate one is the key to achieving accurate, reliable, real-world results. Proper selection requires a basic understanding of each technique since each has its individual strengths and limitations. It also requires a clear understanding of your laboratory's analytical requirements.



+	La Lanthanum	Cerium 58	Praseodymium	Neodymium	Pm Promethium	Sm Samarium	Europium	Gd Gadolinium	Tb	Dy Dysprosium	Ho Holmium	Erbium 68	Tm	70 Yb Ytterbium	71 Lu
+	AC Actinium	Th	Pa Protactinium	U Uranium	Np Neptunium	Pu Plutonium	Am Americium	Cm curium	97 BK Berkelium	Cf Californium	Es Einsteinium	Fermium	Md Mendelevium	NO Nobelium	Lr Lawrencium
+	Ubu Unbiunium	Ubb Unbibium	Ubt Unbitrium		Ubp Unbipentium	Ubh Unbihexium									

Atomic Spectroscopy

PerkinElmer is the world leader in atomic spectroscopy solutions for atomic absorption (AA), inductively coupled plasma optical emission spectroscopy (ICP-OES) and inductively coupled plasma mass spectrometry (ICP-MS). With instruments that are the industry standard worldwide, PerkinElmer accessories, consumables, methods and application support meet the most demanding requirements and are the preferred choice in thousands of laboratories globally.

We invest heavily in testing and validating our complete portfolio of solutions to ensure that you receive accurate, repeatable results, on-time, every time throughout the lifetime of your instrument. From Lumina hollow cathode lamps that allow automatic setup and provide long lamp lifetime to our PerkinElmer Pure Standards that have been analyzed and certified to yield reliable, accurate results, you'll be able to relax knowing you have the best. We also offer a complete portfolio of specialized consumables that deliver reliable performance, control operating costs and maximize the uptime of your instrument.

When you order our precision-designed, genuine Atomic Spectroscopy PerkinElmer consumables and supplies, you'll get the results you need – accurately and on time.

Ordering Information

Place your order online at: www.perkinelmer.com

Online ordering is currently available in Australia, Austral, Belgium, Canada, China, Denmark, Finland, France, Germany, Ireland, Italy, Luxemburg, the Netherlands, Norway, Puerto Rico, Singapore, Spain, Sweden, Switzerland, the United Kingdom and the United States.

Please visit our website for specific Country/Region details relevant to each business portfolio. **Country Specific Fact Sheets**.

Return Goods Policy

Before returning any item to PerkinElmer, please obtain a Return Authorization Number from a customer service representative. Call your local PerkinElmer office and please have the following information ready:

- Our Order Number or your Purchase Order Number
- The PerkinElmer part numbers of the items that you wish to return
- Reason for return

Our customer service representative will provide you with a Return Authorization Number and the return address. We cannot accept any returns without a Return Authorization Number. Policy may vary. Please contact your local PerkinElmer representative for details.

Technical Support

For technical assistance, please contact your local PerkinElmer Customer Care Representative. See local office listings.

Check with your local PerkinElmer Customer Care center for current pricing.

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Terms and Conditions

For details on our terms and conditions, including warranties, please visit: **Terms and Conditions of Sale**

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The Most Trusted Name in Elemental Analysis

From AA to ICP-OES and ICP-MS, we've been at the forefront of elemental analysis for more than 50 years.

Join forces with us and give your laboratory the benefits of cutting-edge instrumentation, consistently excellent consumables and the industry's largest, most trusted service and applications support network.



PinAAcle 500 Flame AA

The PinAAcle™ 500 offers superior durability, longer life, lower maintenance costs and the fastest return on investment of any flame atomic absorption (AA) spectrometer. Plus, it's the world's first completely corrosion-resistant flame AA, designed to withstand the harshest environments and most corrosive samples.

The PinAAcle 500 is designed for:

- Exceptional sensitivity and precision, allowing analysis of lower concentrations with the accuracy of higher-end AA systems
- Fast, simple, reproducible operation through the intuitive, icon-based interface of Syngistix Touch™ or Syngistix™ for AA software
- Harsh environments and challenging samples thanks to its corrosion-resistant design
- Minimum maintenance and maximum speed, reducing operating costs

For more information, visit www.perkinelmer.com/pinaacle500



PinAAcle 900 Series AA

The PinAAcle™ 900 series brings AA performance to new heights. Available in flame, furnace or combination models, PinAAcle 900 instruments offer exactly the level of performance you need with the smallest footprint of any combined flame/ graphite furnace AA system on the market.

The PinAAcle 900 series includes:

- Flame, furnace, flow injection,
 FIAS-furnace and mercury/hydride capabilities on a single instrument
- Choice of Deuterium or longitudinal Zeeman furnace configurations
- Cutting-edge fiber optics to maximize light throughput for improved detection limits
- TubeView[™] color furnace camera simplifies autosampler tip alignment and sample dispensing

For more information, visit www.perkinelmer.com/pinaacle900



FIMS 100/400 Flow Injection Mercury Systems

PerkinElmer's FIMS systems combine the advantages of flow injection and atomic absorption measurement into compact, easy-to-operate mercury analyzers. Based on flow injection techniques, FIMS are fully automated, fast, and cost-effective. They are available with either one (FIMS 100) or two (FIMS 400) peristaltic pumps, depending on your requirements, and use a high-performance, single-beam optical system with a low pressure mercury lamp and solar-blind detector for maximum performance.

Whether you have just a few or hundreds of mercury samples to analyze, FIMS can improve your laboratory productivity by providing up to two determinations per minute. And with an optional autosampler, up to 270 samples can be analyzed automatically in any desired sequence.

FIMS can also be used with PerkinElmer's AA, ICP and ICP-MS instruments for the determination of hydride-forming elements.

For more information, visit https://www.perkinelmer.com/fims





Avio 220 Max ICP-OES

The Avio® 220 Max is a compact, hybrid simultaneous ICP-OES, ideal for labs with low-to-medium throughput requirements. Its unique plug-and-play capabilities save you time and operating costs.

The Avio 220 Max offers:

- Fastest ICP startup cold start to analysis in only 10 minutes
- Lowest argon consumption of any ICP – at least 50% lower than other systems
- Greater uptime and sample throughput with PlasmaShear's maintenance-free design
- Unsurpassed matrix tolerance with vertical torch design
- Superior sensitivity and resolution for all elements of interest
- Extended linear range with dual view technology

For more information, visit www.perkinelmer.com/avio220max



Avio 550/560 Max ICP-OES

The Avio® 550/560 Max are compact, fully simultaneous ICP-OES instruments, ideal for labs with high throughput requirements. They utilize a vertical plasma and are engineered to handle even the most difficult samples, delivering productivity, performance and faster return on investment.

The Avio 550/560 Max provide:

- Simultaneous background correction for faster sample-to-sample time and improved data accuracy
- High throughput enabled by dual view technology, simultaneous data acquisition and low routine maintenance
- Lowest argon consumption of any ICP
 at least 50% lower than other systems
- Greater uptime and sample throughput with PlasmaShear's maintenance-free design
- Unsurpassed matrix tolerance with vertical torch design
- Simultaneous detection of all wavelengths at all times with Universal Data Acquisition
- From fast to faster, the the built-in High Throughput System (HTS) on the Avio 560 Max takes 1.5-minute runs down to 30 seconds, ideal for commercial testing and manufacturing QA/QC labs

For more information, visit **www.perkinelmer.com/aviomax**



LPC 500 Liquid Particle Counter

The LPC 500™ is a single particle optical sizing system designed to count and size particles individually with high resolution. It integrates seamlessly with the Avio® 550 Max ICP-OES for elemental analysis, provides sample-to-sample analysis time of ~45 seconds, uses less than 1 mL of lubricant sample per analysis, and boasts the smallest footprint of any standalone automated particle counter.

The LPC 500 consists of three components – an optical sensor, a multi-channel pulse analyzer (MPA), and a software controller – and is available in two configurations:

- A patent-pending option, coupling the LPC 500 counter with the Avio 550 Max ICP-OES Oils system, enabling the same diluted sample to be analyzed for both wear metals and particle counting/sizing, so two analyses in a single run. Plus, all features and data outputs for the LPC 500 system have been integrated into Syngistix™ for ICP software, leveraging one software platform for both analyses.
- A standalone LPC 500 for particle counting only which offers sample-tosample analysis times of 95 seconds, with the same reduced sample size and sample preparation. This option is controlled by a separate software package that allows extensive customizability of the particle counting parameters.

For more information, visit www.perkinelmer.com/lpc500







NexION 1100 ICP-MS

The NexION® 1100, a single-analyzer with three-quad design ICP-MS, builds on a strong tradition of reliable, easy-to-use, low-maintenance instrumentation, now reinventing the user experience for routine trace-elemental applications.

The NexION 1100 features:

- Proprietary three-quad design with three stages of mass resolution
- Single gas channel leverages helium only for Collision mode or helium-hydrogen mix for Collision and Reaction modes, so you can easily switch between modes without changing gas
- Unique Extended Dynamic Range (EDR) increases linear dynamic range to 10¹⁴, allowing both high- and lowconcentration analytes in a single run, resulting in fewer re-runs
- Triple Cone Interface with Quadrupole Ion Deflector deliver no maintenance beyond the cones
- 34 MHz RF generator with LumiCoil™ RF load coil offers trouble-free user experience

For more information, visit www.perkinelmer.com/nexion1100



NexION 2200 ICP-MS

The award-winning NexION® 2200 is a single-analyzer with three-quad design ICP-MS system that offers outstanding sensitivity, superior interference removal, excellent stability, unmatched matrix tolerance, and more, ideal for challenging trace-elemental applications.

The NexION 2200 boasts:

- Proprietary three-quad design with three stages of mass resolution
- Second-generation Triple Cone Interface with OmniRing™ technology delivers unprecedented flexibility to handle a variety of applications without needing different inserts or lenses, allowing three modes of operation, as needed.
- Unique Extended Dynamic Range (EDR) increases linear dynamic range to 10¹⁴, allowing both high- and lowconcentration analytes in a single run, resulting in fewer re-runs
- Triple Cone Interface with Quadrupole Ion Deflector deliver no maintenance beyond the cones
- 34 MHz RF generator with LumiCoil™ RF load coil offers trouble-free user experience

For more information, visit www.perkinelmer.com/nexion2200



NexION 5000 ICP-MS

The multi-award-winning NexION® 5000 multi-quadrupole ICP-MS, the first in its category to boast four quads, is innovatively designed to meet and exceed the demanding requirements of ultratrace elemental applications, surpassing traditional triple-quad capabilities.

The NexION 5000 offers:

- Unique dual-analyzer with four-quad design provides four stages of mass resolution
- Second-generation Triple Cone Interface with OmniRing™ technology delivers unprecedented flexibility to handle a variety of applications without needing different inserts or lenses, allowing three modes of operation, as needed.
- Unique Extended Dynamic Range (EDR) increases linear dynamic range to 10¹⁴, allowing both high- and lowconcentration analytes in a single run, resulting in fewer re-runs
- Triple Cone Interface with Quadrupole Ion Deflector deliver no maintenance beyond the cones
- 34 MHz RF generator with LumiCoil™ RF load coil offers trouble-free user experience

For more information, visit www.perkinelmer.com/nexion5000



Atomic Absorption

PerkinElmer offers a wide selection of superior quality products designed to work with your PerkinElmer instruments. Our precision designed products deliver the peace of mind that comes from knowing that you'll get the results you need.

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Hollow Cathode and Electrodeless Discharge Lamps

PerkinElmer has over 40 years of expertise designing and manufacturing Hollow Cathode Lamps. PerkinElmer offers a full range of single-element and multi-element Hollow Cathode Lamps and high intensity Electrodeless Discharge Lamps for those elements for which they are more effective.





Nebulizers

Nebulizers are a critical part of the Flame AA sample introduction system and our nebulizers are designed to support a variety of samples.



Graphite Furnace Autosampler Supplies

To keep your Graphite Furnace Autosampler operating smoothly, PerkinElmer offers a complete selection of consumables and supplies.



HGA and THGA Graphite Components

The heart of the Furnace AA system is not only the furnace itself but the graphite components that go into it. Our exclusive PerkinElmer graphite products provide the performance and consistency that furnace applications require.





Flow Injection System Supplies

PerkinElmer offers a complete line of genuine replacement parts for the FIAS, FIMS and MHS systems.











Reliability, sensitivity, affordability—together at last in a Flame AA.

With the PinAAcle™ 500, you can experience an uncompromising level of performance for an unbeatable price. The world's first Flame AA system engineered for complete corrosion resistance, the PinAAcle 500 offers superior durability, longer life, lower maintenance costs, and the fastest return on investment of any Flame AA.

Discover an instrument designed to outlast and outperform. And take your laboratory to a new PinAAcle of productivity and profitability.



Lumina Hollow Cathode Lamps



Features and Benefits:

- Long Life: PerkinElmer's larger lamp volume results in longer lamp lifetime
- Automation: PerkinElmer coded lamps allow automatic setup
- Electronic Lamp Timer: When combined with a PinAAcle instrument and Syngistix Software the lamp life is automatically recorded for easy viewing
- Easy Installation: It's as simple as sliding the lamp into the instrument's lamp bracket or turret
- Complete Compatibility: Lumina hollow cathode lamps can be used with PerkinElmer's entire range of atomic absorption spectrometers
- Testing: Every lamp is thoroughly tested before leaving the factory
- Quality: Carefully selected materials used in the manufacturing of our lamps avoid spectral interference
- Design: Our design provides you with the low detection limits needed for your most difficult determinations
- Selection: PerkinElmer offers a wide selection of single-element and multi-element lamps
- Warranty: The performance of every PerkinElmer lamp is fully warranted* (see next page for details).

Lumina Single-Element Hollow Cathode Lamps

Element Name	Element Symbol	Lumina Lamp Part No.	Lumina Lamp with Intensitron® Adapter Part No.
Aluminum	Al	N3050103	
Antimony	Sb	N3050170	N3050370
Arsenic	As	N3050105	
Barium	Ва	N3050109	N3050309
Beryllium	Be	N3050110	
Bismuth	Bi	N3050111	
Boron	В	N3050108	
Cadmium	Cd	N3050115	N3050315
Calcium	Ca	N3050114	N3050314
Chromium	Cr	N3050119	N3050319
Cobalt	Со	N3050118	
Copper	Cu	N3050121	
Dysprosium	Dy	N3050122	
Erbium	Er	N3050123	
Europium	Eu	N3050124	
Gadolinium	Gd	N3050129	
Gallium	Ga	N3050128	
Germanium	Ge	N3050130	
Gold	Au	N3050107	
Hafnium	Hf	N3050133	
Holmium	Но	N3050135	
Indium	In	N3050137	
Iridium	lr	N3050138	
Iron	Fe	N3050126	N3050326
Lanthanum	La	N3050141	
Lead	Pb	N3050157	N3050357
Lithium	Li	N3050142	
Magnesium	Mg	N3050144	N3050344
Manganese	Mn	N3050145	N3050345
Mercury	Hg	N3050134	
Molybdenum	Mo	N3050146	
Neodymium	Nd	N3050150	
Nickel	Ni	N3050152	N3050352
Niobium	Nb	N3050149	
Palladium	Pd	N3050158	
Phosphorus	Р	N3050155	
Platinum	Pt	N3050162	
Potassium	K	N3050139	N3050339
Praseodymium	Pr	N3050161	
Rhenium	Re	N3050165	N3050365
Rhodium	Rh	N3050166	
Ruthenium	Ru	N3050168	

Chart continues on next page







Element Name	Element Symbol	Lumina Lamp Part No.	Lumina Lamp with Intensitron® Adapter Part No.
Samarium	Sm	N3050174	
Scandium	Sc	N3050171	
Selenium	Se	N3050172	
Silicon	Si	N3050173	
Silver	Ag	N3050102	N3050302
Sodium	Na	N3050148	N3050348
Strontium	Sr	N3050176	
Tantalum	Ta	N3050177	
Tellurium	Te	N3050180	
Terbium	Tb	N3050178	
Thallium	TI	N3050183	
Thulium	Tm	N3050184	
Tin	Sn	N3050175	
Titanium	Ti	N3050182	
Tungsten	W	N3050187	
Vanadium	V	N3050186	
Ytterbium	Yb	N3050190	
Yttrium	Υ	N3050189	
Zinc	Zn	N3050191	N3050391
Zirconium	Zr	N3050192	

PERKINELMER EXCLUSIVE 6/24 WARRANTY*

Lumina™ Hollow Cathode Lamps

- 1. We warrant that during the first six months or after 5,000 milliampere-hours of operation, whichever comes first, from initial date of shipment, the lamps will meet or exceed the intensity and absorption specifications to which all new lamps are tested.
- 2. All our hollow cathode lamps are warranted to light and emit the spectra of the element indicated for two years or 5,000 milliampere-hours of operation from the date of the shipment, whichever comes first.
- 3. If any lamp fails before the expiration of the warranty period, it will be replaced free of charge.

Lumina Multi-Element Hollow Cathode Lamps

Element Name	Element Symbol	Lumina Lamp Part No.
Two-element Lamps		
Silver, Gold	Ag, Au	N3050201
Calcium, Magnesium	Ca, Mg	N3050202
Calcium, Zinc	Ca, Zn	N3050203
Potassium, Sodium	K, Na	N3050204
Platinum, Ruthenium	Pt, Ru	N3050205
Tin, Tellurium	Sn, Te	N3050206
Three-element Lamps		
Calcium, Magnesium, Zinc	Ca, Mg, Zn	N3050208
Copper, Iron, Nickel	Cu, Fe, Ni	N3050209
Four-element Lamps		
Copper, Iron, Manganese, Zinc	Cu, Fe, Mn, Zn	N3050212
Five-element Lamps		
Silver, Chromium, Copper, Iron, Nickel	Ag, Cr, Cu, Fe, Ni	N3050213
Cobalt, Chromium, Copper, Manganese, Nickel	Co, Cr, Cu, Mn, Ni	N3050214
Six-element Lamps		
Cobalt, Chromium, Copper, Iron, Manganese, Nickel	Co, Cr, Cu, Fe, Mn, Ni	N3050217
Seven-element Lamps		
Aluminum, Calcium, Copper, Iron, Magnesium, Silicium, Zinc	Al, Ca, Cu, Fe, Mg, Si, Zn	N3050218

^{*}The lamp warranty is void for lamps which sustain physical damage or are operated at power levels substantially above or below the power level recommended on the lamp label. The lamp warranty may vary in different countries.

Electrodeless Discharge Lamps



Features and Benefits:

- Brightness: EDLs are much brighter and, in some cases, provide better sensitivity than comparable hollow cathode lamps
- Precision: EDLs offer lower detection limits and are preferred for analyses that are 'noisy' due to weak hollow cathode emission
- Long Life: System 2 EDLs are long-lived for exceptional cost-effectiveness
- Automation: PerkinElmer coded lamps allow automatic set-up on systems with automated turret
- Quality: Carefully selected materials used in the manufacturing of our lamps avoid spectral interference
- Testing: Every lamp is thoroughly tested
- Design: Our design provides you with the low detection limits needed for your most difficult determinations
- Warranty: The performance of every PerkinElmer lamp is fully warranted*

PERKINELMER EXCLUSIVE WARRANTY*

System 2 Electrodeless Discharge Lamps

- 1. We warrant that during the first six months or after 500 hours of operation, whichever comes first, from initial date of shipment, the lamps will meet or exceed the intensity and absorption specifications to which all new lamps are tested.
- 2. All our Electrodeless Discharge Lamps are warranted to light and emit the spectra of the element indicated for two years or 1,000 hours of operation from the initial date of shipment, whichever comes first.
- 3. If any lamp fails before the expiration of the warranty period, it will be replaced free of charge.
- * The lamp warranty is void for lamps that sustain physical damage or are operated at power levels substantially above or below the power level recommended on the lamp label. The lamp warranty may vary in different countries.

EDLs provide greater light output and longer life than corresponding HCLs

For certain elements such as Arsenic and Selenium, EDLs will also provide improved sensitivity and lower detection limits. System 2 electrodeless discharge lamps provide the optimized spectral output needed to get the maximum performance from PerkinElmer atomic absorption spectrometers.

EDLs are typically much brighter and, in some cases, provide better sensitivity than comparable HCLs. EDLs are preferred for certain volatile elements. They offer better precision and lower detection limits for analyses that are 'noisy' due to weak hollow cathode emission. PerkinElmer System 2 EDLs consist of the element or a salt of the element sealed in a quartz bulb containing an inert gas atmosphere. When an RF field of sufficient power is applied, the inert gas is ionized and the coupled energy vaporizes the element and excites the atoms inside the bulb, resulting in the emission of the characteristic spectrum.

PerkinElmer's System 2 EDLs consist of a driver and a lamp sleeve. Depending on the instrument, one or two EDL lamps can be on at the same time. The driver connects to the instrument's RF power supply (if applicable), or the external power supply if needed. The lamp sleeve contains the pre-aligned bulb for the element of interest. The sleeve has the same exterior dimensions as the PerkinElmer HCLs, allowing System 2 EDLs to be used in the same lamp mounts and turrets.

The locking pin on the lamp driver prevents operation without the lamp sleeve correctly installed on the driver.

Electrodeless Discharge Lamps are an ideal source for determining volatile elements.



System 2 EDL with Coded Adapter



Coded Adapter

Electrodeless Discharge Lamps

Element Name	Element Symbol	System 2 EDL with Coded Adapter Part No.	AAnalyst Coded Adapter Part No.
Antimony	Sb	N3050670	
Arsenic	As	N3050605	N3050860
Bismuth	Bi	N3050611	
Cadmium	Cd	N3050615	N3050862
Cesium	Cs	N3050620	N3050863
Germanium	Ge	N3050630	
Lead	Pb	N3050657	N3050867
Mercury	Hg	N3050634	N3050865
Phosphorus	Р	N3050655	
Rubidium	Rb	N3050664	
Selenium	Se	N3050672	N3050870
Tellurium	Te	N3050680	N3050872
Thallium	TI	N3050683	
Tin	Sn	N3050675	
Zinc	Zn	N3050691	N3050874

EDL Driver Assembly required



EDL Driver Assemblies

Description	Part No.
For AAnalyst™ 200/400	N3150131
EDL Lamp Adapter AAnalyst 200/400 to PinAAcle Adapter cable to allow custom AAnalyst 200/400 EDL lamp drivers to plug into PinAAcle instruments	
System 2 EDL driver with a short cable For use with PinAAcle and other instruments that have a built in EDL power supply. Adapter N3150303 is also needed if used on the AAnalyst 200/400	03030997
Driver with a long cable For use with the external power supply, but has the same plug connector as 03030997 . Requires adapter N3150303 if used with the AAnalyst 200/400	03030793

Background Corrector Sources

For Instrument Models	Source Type	Part No.
PinAAcle 500/900	Deuterium	N3160811
AAnalyst 200/400	Deuterium	B3150169
AAnalyst 700/800	Deuterium	B0148615

Lamp Adapters and Supplies

Non-Coded Intensitron Lamp Plug Adapter

Allows non-coded Intensitron lamps (03036XXX series, 9-pin) and other 9-pin lamps to be used with PinAAcle and AAnalyst instruments (4-pin).



Non-Coded Intensitron Lamp Plug Adapter Part No. **N3050197**

Description	Part No.
Non-Coded Intensitron Lamp Plug Adapter	N3050197

Red Filter

Linearizes working curves for potassium, lithium, rubidium and cesium. Recommended for Rb and Cs determinations by flame emission. Passes only wavelengths longer than 650 nm.

Description	Part No.
Red Filter	02901518

For a full selection of Lamp Adapters and supplies please visit our website.

Atomax Hollow Cathode Lamps



Atomax[™] 1.5 in. AA Lamps from PerkinElmer, the World Leader in Atomic Absorption

Atomax 1.5 in. hollow cathode lamps are crafted to the same high standards that have made PerkinElmer 2 in. Lumina™ hollow cathode lamps the best in the industry. Drawing on more than 40 years of HCL design and manufacturing expertise, Atomax lamps now offer laboratories around the world a dependable, top-quality lighting source, regardless of the brand of AA instruments used.

Value-Priced and Fully Compatible with 1.5 in. Format AA Instruments

PerkinElmer 2-pin non-coded Atomax lamps are designed to fit most commercially available atomic absorption instruments including Agilent®, Thermo®, Shimadzu®, GBC®, Analytic Jena®, Hitachi® and many more. Combining affordability and industrywide compatibility allows users of other brands of AAs to benefit from PerkinElmer's proven lamp performance. Each lamp is thoroughly tested to ensure that it will stand up to the most demanding requirements. Atomax lamps represent an exceptional value and our money-back guarantee means you can order with complete confidence.

Tested and Validated for Highest Quality Performance

All 1.5 in. Atomax hollow cathode lamps are thoroughly tested to ensure maximum light output and spectral purity. Comparative results show that Atomax lamps provide equal or better performance than other AA lamps in the market. Precision engineered for high sensitivity, stable light output, low noise, and long life, you can rely on Atomax lamps for the accurate results you need.

Features and Benefits:

- Experts: Expertise designing and manufacturing quality lamps for over 40 years. A brand you can trust
- Compatibility: Compatible with other manufacturer's instruments tested and approved
- Lifetime: Long lifetime and performance. As the world's leading AA supplier, we know how to build lamps that provide maximum light output and spectral purity for optimum performance
- · Quality: Every lamp ships with Certificate of Quality
- Testing: Lamps are thoroughly tested before leaving the factory
- Raw Materials: Carefully selected materials used in the manufacturing of our lamps avoid spectral interference
- Clean: Lamps are built to stringent specifications in a state-of-the-art lamp manufacturing facility. Great quality every time
- Design: Our design provides you with the low detection limits needed for your most difficult determinations
- Value: Equivalent or better performance than your current lamp at a great price

Every Atomax lamp includes a certificate of quality, our promise of outstanding performance levels from the leader in AA.





PERKINELMER EXCLUSIVE 6/24 WARRANTY*

Atomax™ Hollow Cathode Lamps

- We warrant that during the first six months for 5,000 milliampere-hours of operation, whichever comes first, from initial date of shipment, the lamps will meet or exceed the intensity and absorption specifications to which all new lamps are tested.
- 2. All of our hollow cathode lamps are warranted to light and emit the spectra of the element indicated for two years or 5,000 milliampere hours of operation from the date of the shipment, whichever comes first.
- 3. If any lamp fails before the expiration of the warranty period, it will be replaced free of charge.

Element	Symbol	Part No.
Antimony	Sb	N2025347
Arsenic	As	N2025302
Bismuth	Bi	N2025307
Cadmium	Cd	N2025309
Iron	Fe	N2025317
Magnesium	Mg	N2025330
Mercury	Hg	N2025322
Phosphorus	Р	N2025338

Graphite for Non-PerkinElmer Instruments can be found in the graphite section.





^{*} The lamp warranty is void for lamps which sustain physical damage or are operated at power levels substantially above or below the power level recommended on the lamp label. The lamp warranty may vary in different countries.

Burner System Components



An efficient burner system is essential for obtaining optimal performance from your AA instrument, and proper maintenance is required to obtain precise and accurate determinations.

Features and Benefits:

- 100% titanium burner heads, an exclusive PerkinElmer feature that provides maximum corrosion resistance when analyzing any type of sample
- Burner chambers constructed of inert, wettable plastic to allow for proper drainage of excess sample and minimize sample carryover of previous analyses
- Multivaned flow spoilers remove large sample droplets from the nebulized spray and reduce susceptibility to analytical interference
- Gaskets designed for use with aqueous and organic samples. Choose from synthetic rubber gaskets for aqueous solutions and Corkprene or KALREZ gaskets for organic solutions
- PinAAcle uses the same Burner Heads as AAnalyst series. The latest design has a hole on the rim for ease of rotation during operation. The handle is provided with the instrument

Burner Heads

Single-slot Nitrous Oxide-acetylene 5 cm

The 5 cm nitrous oxide burner head is required for nitrous oxide-acetylene operation. This burner head can also be used with air-acetylene or rotated to provide reduced sensitivity.

Description	Part No.
Single-slot Nitrous Oxide-acetylene 5 cm	N0400100

Single-slot Air-acetylene 10 cm

The 10 cm burner head is designed to be used with the air-acetylene flame. Because of its long burner path length, it provides the best sensitivity for air-acetylene elements. This is the standard burner head that is shipped with all PinAAcle flame instruments.

Description	Part No.
Single-slot Air-acetylene 10 cm	N0400102

Single-slot Air-acetylene 5 cm

A 5 cm air-acetylene burner head is available for applications in which reduced sensitivity is required. It can be rotated to provide further sensitivity reduction, and it has a wide slot to prevent clogging.

Description	Part No.
Single-slot Air-acetylene 5 cm	N0400101

Three-slot Air-acetylene 10 cm

The three-slot burner head is designed to be used when analyzing samples with high concentrations of dissolved solids. The three-slot burner head is not compatible with some older gas control systems.

Description	Part No.
Three-slot Air-acetylene 10 cm	N0400103

Burner Head Cleaning Tool

Description	Part No.
Burner Head Cleaning Tool	03031573

Burner Head Adjustment Tool

Description	Part No.
Burner Head Adjustment Tool	N3161240





Single-slot Air-acetylene 5 cm



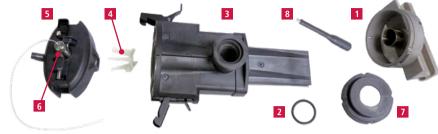
Single-slot Air-acetylene 10 cm



Burner Head Adjustment Tool

PinAAcle Burner System Components

- 1 Burner Head
- 2 Burner Head O-Ring
- 3 Mixing Chamber
- 4 Flow Spoiler
- 5 End Cap Assembly
- 6 Stainless Steel Nebulizer
- 7 Retaining Ring
- 8 Burner Head Adjustment Tool



PinAAcle Burner System Components

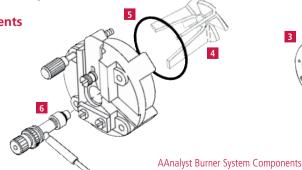
Burner System Components

Description	PinAAcle 500/900 Part No.	AAnalyst 100/200/300/400/700/800 Part No.
Viton Burner Head O-Ring Kit, 0.984 in. x 0.139 in. 09200079 O-Ring (3), 09200078 Super O-Lube (1)	09902219	09902219
Burner Mixing Chamber Assembly (Note: PinAAcle assembly includes components 2, 3 and 7; AAnalyst component 2 only.)	N3160506	00570948
Burner Chamber Holder	N3160809	
Clamping Ring		N0401171
Flow Spoiler	00572561	00572561
Viton O-Ring for End Cap Gas Lines (Neb., Aux., Fuel) 0.312 in. x 0.070 in. (Qty. 4 required)	09200253	
Viton O-Ring for End Cap 1.892 in. x 0.103 in.	09902147	09902147
Kalrez O-Ring for End Cap Gas Lines (Neb., Aux., Fuel) 0.312 in. x 0.070 in. (Qty. 4 required)	09200275	
Kalrez O-Ring for End Cap 1.892 in. x 0.103 in.	09200277	09200277
Organics (Corkprene) O-Ring for End Cap	00472014	00472014
End Cap Assembly with Viton O-Rings (for use with metal body nebulizers)	N3160505	00570984
End Cap Assembly with Kalrez O-Rings (for use with metal body nebulizers)	N3160188	
End Cap Assembly with Viton O-Rings (for use with plastic body nebulizers)	N3160511	N0370392
End Cap Assembly with Kalrez O-Rings (for use with plastic body nebulizers)	N3160189	
End Cap Assembly Impact Bead (for use with metal body nebulizers)	N3160545	
Burner Gasket Kit for End Cap Assembly 00570984 ; 00472014 (5), 09902147 (3), 09902219 (1), 09902236 (3), 09902240 (3)		00470988
Drain Tubing — Tygon Tubing with FEP lining	02507987	02507987
Pyrex Impact Bead Used with End Caps for Metal Body Nebulizers	00572615	00572615
Seal Plug for the 00572615 Pyrex Impact Bead used with end caps for metal body nebulizers	N3161224	00572624
O-Ring for seal plug in end caps with Impact Bead (Qty. 2 required)	09902236	09902240
Burner Drain Assembly for Organic Solutions	N3160683***	N3160683* and adapter N2011200
Burner Drain Assembly (includes tubing and drain interlock, drain bottle 09200486 not included)		N0400058* and adapter N2011200
Burner Drain Assembly (includes tubing and drain interlock, drain bottle 09200486 not included)	N0400058***	N0400058**
Wide Mouth 15 L Drain Bottle	09200486	09200486

*For AAnalyst 700/800, **For AAnalyst 200/400, ***Also compatible with AAnalyst 100/200/300/400

AAnalyst Burner System Components

- 1 Burner Head
- 2 Burner Mixing Chamber
- 3 Clamping Ring
- 4 Flow Spoiler
- 5 End Cap O-Ring
- 6 End Cap Assembly







Nebulizers



The nebulizer is one of the most important components in a flame AA spectrometer

Sample solutions, with differing physical properties, must be converted into an aerosol of small, similarly-sized droplets. This places great demands on the design of the nebulizer.

All PerkinElmer nebulizer assemblies are adjustable for optimized performance and include easily-interchanged capillary assemblies for simple, reduced-cost maintenance. PerkinElmer nebulizers are manufactured to exacting tolerances to provide maximum sensitivity. Universal, or, 'standard' nebulizers are less expensive than the corresponding high-sensitivity nebulizers and provide a lower level of sensitivity. The universal, or, 'standard' nebulizers typically provide better precision and reduced 'carryover' interference when used with solutions that contain high dissolved solids content of higher analyte concentrations.





High-Sensitivity Nebulizer with Pt/Ir Capillary

Our high-precision nebulizer maximizes stability and sensitivity, even for the toughest matrices. The nebulizer is adjustable so a wide variety of sample matrices – aqueous or organic, acidic or basic, diluted or concentrated – can be analyzed under optimum conditions. This high-sensitivity nebulizer is fabricated with inert plastic materials for maximum performance and corrosion resistance.



High-Sensitivity Nebulizer

- Provides maximum sensitivity, precision and freedom from analytical interferences
- The high-sensitivity nebulizer with platinum/iridium capillary is for most solutions, but not for precious metal samples containing agua regia
- High-sensitivity nebulizer with tantalum capillary used for solutions containing aqua regia



Metal Body Corrosion-Resistant Nebulizers

- For all solutions containing hydrofluoric acid or aqua regia
- For all solutions containing high concentrations of dissolved solids
- All internal components in contact with solutions are constructed of plastic to resist corrosion from concentrated acids
- Reduced performance compared with stainless steel or platinum/ rhodium nebulizers



Plastic Body GemTip[™] Nebulizers

- Corrosion-resistant and can be used to aspirate almost all solutions, even those solutions containing a high percentage of acids
- Designed to obtain optimum sensitivity, detection limits and precision with flame atomic absorption for both air-acetylene and nitrous oxide-acetylene flames



Metal Body Platinum Alloy Nebulizers

- Recommended for most concentrated acids containing >5% acid
- Includes a platinum alloy needle assembly and a tantalum venturi
- Provides maximum chemical resistance
- Not suitable for use with agua regia or hydrofluoric acid



Metal Body Stainless Steel Nebulizers

- For most solutions containing <5% acid, providing exceptional performance and durability
- Excellent performance (precision and signal-to-noise ratio)



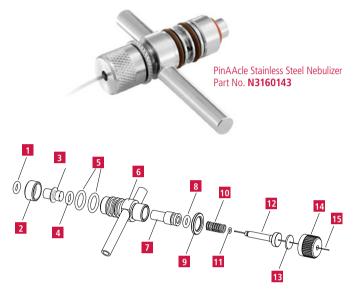


Nebulizer Assemblies and Spares

Metal Body Nebulizer Parts for PinAAcle AA Instruments

For Nebulizers with Part Nos. N3160143 and N3160158

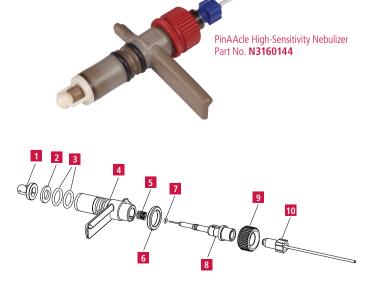
	Description	Part No.
1	O-Ring sealing Nebulizer to End Cap	09926068
	Solvent Resistant O-Ring Sealing Nebulizer to End Cap	09200274
2	Сар	N3161057
3	Venturi	03031810
4	O-Ring for Venturi	09902047
	Solvent Resistant O-Ring for Venturi	09200273
5	O-Rings for Nebulizer Body (Each nebulizer requires a quantity of 2)	09902015
	Solvent Resistant O-Rings for Nebulizer Body (Each nebulizer requires a quantity of 2)	09200276
6	Nebulizer Body	N3160133
7	Nebulizer Insert	03031812
8	O-Ring for Nebulizer Insert	09902047
	Solvent Resistant O-Ring for Nebulizer Insert	09200273
9	Locking Ring	
10	Spring	03031806
11	O-Ring for Capillary Needle Assembly	09902102
	Solvent Resistant O-Ring for Capillary Needle Assembly	09200271
12	Capillary Needle Assembly with O-Ring	03030354
	Solvent Resistant Capillary Needle Assembly with O-Ring	
13	PTFE Washer	03031802
14	Fine Adjustment Nut	03031460
15	Sample Capillary	09908265



Plastic Body Nebulizer Parts for PinAAcle AA Instrument

For Nebulizers with Part Nos. N3160144, N3160152 and N3160159

	Description	Part No.
1	Impact Bead	B0505086
2	Spacer	B3150531
3	O-Rings for Nebulizer Body (Each nebulizer requires a quantity of 2)	09902015
	Solvent Resistant O-Rings for Nebulizer Body (Each nebulizer requires a quantity of 2)	09200276
4	Plastic Nebulizer Body	
5	Spring	09920483
6	Locking Ring	
7	O-Ring for Capillary Needle Assembly	09926127
	Solvent Resistant O-Ring for Capillary Needle Assembly	09200272
8	Pt/Ir Capillary Needle Assembly with Spring and O-Ring	B3150525
	Solvent Resistant Pt/Ir Capillary Needle Assembly with Spring and O-Ring	N3160154
9	Fine Adjustment Nut	B3150462
10	Sample Tubing	B3150458



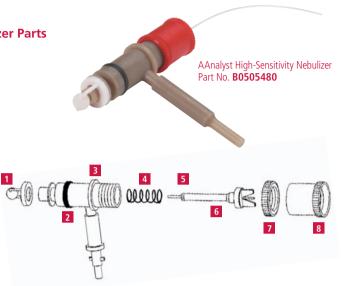
Plastic Body Nebulizer Parts for AAnalyst AA Instruments

AAnalyst 100/300/200/400/700/800* High-Sensitivity Nebulizer Parts

For Nebulizer with Part No. **B0505480**

Description		Part No.
1 Impact Bead		B0505086
2 Solvent Resistan	O-Ring for Nebulizer	r Body
3 Nebulizer Body		
4 Spring		
5 Solvent Resistan	O-Ring for Capillary	Assembly
6 Pt/Ir Capillary As	sembly	B0501022
7 Locking Ring		B0501025
8 Fine Adjustment	Nut	B0501026

^{*}This nebulizer requires the use of end cap assembly



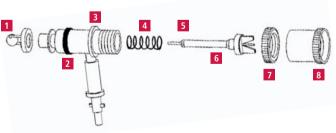
AAnalyst 200/400/700*/800* High-Sensitivity Nebulizer Parts

For Nebulizers with Part Nos. N3150188 and N2010250

	Description	Part No.
1	Impact Bead	B0505086
	Nebulizer Spacer (not pictured)	B3150531
2	O-Rings for Nebulizer Body (Each nebulizer requires a Qty. of 2)	09902015
	Solvent Resistant O-Rings for Nebulizer Body (Each nebulizer requires a Qty. of 2)	09200276
3	Nebulized Body	
4	Spring	09920483
5	O-Ring for Capillary Assembly	
	Solvent Resistant O-Ring for Capillary Assembly	09200272
6	Pt/Ir Capillary Assembly with O-Ring	B3150525
	Tantalum Capillary Assembly with Solvent Resistant O-Ring and Spring	
7	Locking Ring	
8	Fine Adjustment Nut	B3150462
N/A	O-Ring for Sample Tube (Each sample tube requires a Qty. 2)	B0507708
N/A	Solvent Resistant O-Ring for Sample Tube (Each sample tube a Qty. 2)	09200369
N/A	Solvent Resistant O-Ring Kit (Includes 1 x 09200272 , 2 x 09200276 and 2 x 09200369)	N2010246

^{*}Requires End Cap Assembly N0370392



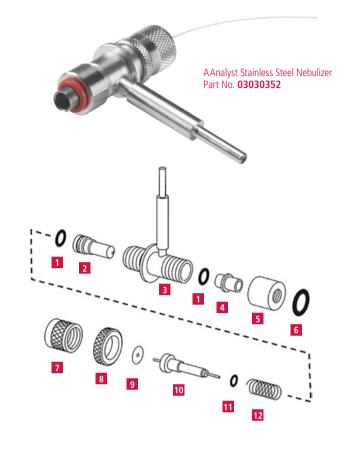


Universal GemTip Nebulizer Part No. **N0370394**

Metal Body Nebulizer Parts for AAnalyst 200/400*, 100/300/700/800**

For Nebulizers with Part Nos. **03030404**, **03030299** and **03030352**

	Description	Part No.
1	O-Ring for Insert/Venturi (Each nebulizer requires a quantity of 2)	09902005
	Solvent Resistant O-Rings for Insert/Venturi (Each nebulizer requires a quantity of 2)	09200273
2	Insert	03031812
3	Nebulizer Body	03030353
4	Venturi for Corrosion Resistant Nebulizer	03031920
	Venturi for Platinum Alloy Nebulizer	03033124
	Venturi for Stainless Steel Nebulizer	03031810
5	Front End Cap	
6	O-Ring for Front End Cap	
	Solvent Resistant O-Ring for Front End Cap	09200274
7	Fine Adjustment Nut	
8	Locking Ring	03031456
9	Washer	
10	Capillary Assembly for Corrosion Resistant Nebulizer	03030402
	Capillary Assembly for Platinum Alloy Nebulizer	03030433
	Capillary Assembly for Stainless Steel Nebulizer	03030354
11	O-Ring for Capillary Assembly	
	Solvent Resistant O-Ring for Capillary Assembly	09200271
12	Spring	
N/A	O-Ring Kit (Includes 5 x 09902005 , 3 x 09902102 , 5 x 09902239 , 2 x 03031802)	N9300065
N/A	Solvent Resistant O-Ring Kit (Includes 1 x 09200271 , 2 x 09200273 and 1 x 09200274)	N2010247



^{*} AAnlayst 200/400 Require End Cap **00570984** ** For AAnalyst spectrometers shipped starting Fall 1999

GemTip Nebulizers for AAnalyst 100/300/200*/400*/700**/800**

For Nebulizers with Part Nos. N0370394 and N0370393

	Description	Part No.
1	Capillary Tubing	09908265
2	Fine Adjustment Nut	N0371492
3	Gland Nut	N0371505
4	PTFE Tubing	09985708
5	Capillary Assembly for Universal GemTip Nebulizers	
	Capillary Assembly for High-Sensitivity GemTip Nebulizers	
6	O-Ring for Capillary Assembly	
7	Impact Bead for High-Sensitivity GemTip Nebulizer	B0505086
8	O-Ring for Nebulizer Body	09902015
	Solvent Resistant O-Ring for Nebulizer Body	
9	Body Assembly for Universal GemTip Nebulizer	
	Body Assembly for High-Sensitivity Nebulizer	N0370399
10	Locking Nut	N0371493
11	Spring	
12	Connector Nut	
13	Magnet Holder Assembly	

^{*} AAnlayst 200/400 Require End Cap N0370392 ** For AAnalyst 700/800 Instruments Shipped before Fall 1999

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9

Kalrez O-Ring Kits for Sampling Accessories

Description	Part No.
Nebulizer, End Cap and Burner Head O-Ring Kit for Plastic Nebulizer for PinAAcle AA. Includes: 09200272 (1), 09200275 (4), 09200276 (2), 09200277 (1), 09200278 (1), 09200369 (2)	N3160157
Nebulizer, End Cap and Burner Head O-Ring Kit for Stainless Steel Nebulizer for PinAAcle AA. Includes: 09200271 (1), 09200273 (2), 09200274 (1), 09200275 (4), 09200276 (2), 09200277 (1), 09200278 (1)	N3160156
Nebulizer O-Ring Kit for Stainless Steel Nebulizer for PinAAcle AA. Includes: 09200271 (1), 09200273 (2), 09200274 (1), 09200276 (2)	N3160192
Nebulizer O-Ring Kit, fits Stainless Steel Nebulizers 03030358 and 03030352. Includes: 09200271 (1), 09200273 (2), 09200274 (1)	N2010247
Nebulizer O-Ring Kit for AA200/400 Nebulizer N2010250. Includes: 09200272 (1), 09200276 (2), 09200369 (2)	N2010246
End Cap O-Ring Kit for PinAAcle AA. Includes: 09200275 (4), 09200277 (1)	N3160194

PinAAcle Nebulizers and Assemblies Quick Reference

Description	Туре	Needle	O-Ring Type	Complete Assembly	End Cap Assembly	Replacement Needle Assembly
Plastic High Sensitivity (standard)	Aqueous	Platinum/Iridium	Viton	N3160144	N3160511	B3150525
Plastic High Sensitivity	Aqueous or Organics	Platinum/Iridium	Kalrez	N3160159	N3160189	N3160154
Plastic High Sensitivity (suitable for aqua regia in addition to organics)	Aqueous or Organics	Tantalum	Kalrez	N3160152	N3160189	
Stainless Steel (standard)	Aqueous	Stainless	Viton	N3160143	N3160505	03030354
Stainless Steel	Aqueous or Organics	Stainless	Kalrez	N3160158	N3160188	
Stainless Steel	Aqueous	Plastic	Viton		N3160505	
Stainless Steel	Aqueous	Platinum Alloy	Viton		N3160505	
Description	Туре					Burner Drain Assembly
Drain Assembly	Organics					N3160683

AAnalyst Nebulizers and Assemblies Quick Reference

Description	Туре	Needle	O-Ring Type	Complete Assembly	End Cap Assembly	Replacement Needle Assembly
High-Sensitivity Plastic Body	Aqueous or Organics	Tantalum	Kalrez	N2010250		
Plastic Body	Aqueous	Platinum/Iridium	Viton	N3150188	N0370392	
High-Sensitivity Plastic Body	Aqueous or Organic	Platinum/Iridium	Kalrez	B0505480	N0370392	B0501022
High-Sensitivity Plastic Body	Aqueous or Organic	Tantalum	Kalrez		N0370392	
Stainless Steel Body	Aqueous	Stainless Steel	Viton	03030352	00570984	03030354
Corrosion Resistant Metal Body	Aqueous or Organic	Tantalum	Kalrez	03030404	00570984	03030402
Platinum Alloy Nebulizer	Aqueous	Platinum/Iridium	Kalrez	03030299	00570984	03030433
Universal GemTip	Aqueous F	Plastic with Sapphire Tip	Viton	N0370394	N0370392	
High-Sensitivity GemTip	Aqueous or Organic I	Plastic with Sapphire Tip	Kalrez	N0370393	N0370392	

Nebulizer Accessories

Description	Part No.
Capillary Tubing	09908265
Nebulizer Cleaning Wires Pkg. 5	03030135
Nebulizer Grease	03030405







Nebulizer Capillary Tubing Nebulizer

Nebulizer Grease

Autosampler Cups and Supplies





88-Position Tray

148-Position Tray

Furnace Autosampler Trays

For a quick change to another series of samples, a second sample tray is recommended.

For Model AS-800/AS-900

Description	Part No.
88-Position Tray, Polypropylene 80 sample locations for 2.0, 2.5 or 3.5 mL sample cups. Each sample tray also has 8 positions for 7.0 mL reagent containers	B3001507
148-Position Tray, Polypropylene 132 sample locations for 1.2 mL sample cups and eight locations for 2.5 or 3.5 mL sample cups. Each sample tray also has 8 positions for 7.0 mL reagent containers. One is provided with the autosampler	B3001506
Cover	B3001505



Furnace Sampling Probe

Made of PTFE, these are capable of pipetting a variety of corrosive matrices and organic solutions.

Features and Benefits

- Works well with solvent and acid-resistant sampling components
- PTFE pipette tips and capillaries reduce contamination
- Easy replacement

Description	Part No.
For Models AS-60/AS-70/AS-71/AS-72/AS-800/AS-900	B0129258



Graphite Furnace Autosampler Cups

Sample cups are of heavy-duty construction to prevent cracking or tipping. Their conical design allows for use of nearly the entire sample.

Your Choice of Materials:

- Polystyrene Clear, recommended for use with most aqueous solutions
- Polyethylene Translucent, low-density, recommended for use with most aqueous solutions
- PTFE Recommended for use with most concentrated acids including HF, and for analyses where the lowest detection levels are required
- **Polypropylene** Translucent; preferred for most solvents

Volume	Composition	Qty.	Part No.
1.2 mL*	Polypropylene	2,000	B0510397
2.0 mL	Polyethylene	1,000	B0087056
2.0 mL	Polystyrene	1,000	B0119079
2.5 mL	Polypropylene	1,000	B3001566
7.0 mL**	Polypropylene	100	B3001567

^{*} For use with AS-71/72/800/900 ** For use with AS-800/AS-900



Pliers and Accessories

Description	Part No.
For 1.2 mL sample cups.	B0510398
Drain Bottle without Cap 2 L	B0104344
Rinse Bottle	B0104281

Check Valves

Description	Aqueous Part No.	Organics Part No.
Check Valve Inlet	B3002007	B0105973
Check Valve Outlet	B3002006	B0105974
Inlet and Outlet Kit	B3001485	

Air Compressors

AA Ultra Quiet Oil-Less Air Compressor

PerkinElmer is expanding its compressor product portfolio to include an industrial grade, quiet, oil-less compressor for dependable and clean air supply. With the addition of a water separator with a 5 micron particle filter, no liquid transfers into the air supply, providing you with contaminant free air. Each quiet, vibration free compressor comes standard with an internally and externally coated air tank with automatic condensate drain system and collection bottle. The AA Ultra Quiet Oil-Less Air Compressor features a low operating sound level of 60 dB and comes completely outfitted to operate the PerkinElmer Atomic Absorption (AA) Spectrometers.

Features and Benefits

- · Completely quiet oil-less operation
- Delivers clean and dry instrument grade air
- Water separator with 5 micron particle filter assures no liquid transfer
- Specialty coated cylinders and high temperature piston rings for long service life
- Durable air tank with automatic condensate drain, internal coating and 5 year warranty
- Low annual operating costs
- 2-year system warranty
- A complete compressed air station incorporating an outlet pressure regulator, tank and outlet pressure gauge, shut off ball valve, ASME safety valve, and pressure switch allowing for complete automatic operation



ISO 13485-2008 Certified





Specifications	
Horse Power	1 HP
Output CFM	4.2 CFM
Output L	120 L/min
Max Pressure PSI	120 PSI
Max Pressure Bar	8 bar
Max Current 110 V	7.8 Amps
Max Current 220 V	3.8 Amps
Noise Level	60 db/A
Tank Size Gallons	6
Tank Size L	24
Dimensions	16 in. x 16 in. x 21 in.
Weight	53.8 lbs.
Packed Dimensions	20 in. x 20 in. x 25 in.
Packed Weight	65.8 lbs.

Description	Part No.
Replacement Air Intake Filter	N0777870
Micron Dryer Filter Element	N0777871



THGA Graphite Tubes

THGA Graphite Tubes with Advanced Platform™

The exclusive and patented Advanced Platform design offers an alternative to our Standard Integrated Platform design. With the current Integrated Platform design, the platform attaches to the tube wall along a single side that runs the length of the platform. The new Advanced Platform design suspends the platform in the tube using three small pins in a triangular layout. This has the advantage of minimizing wall contact and reducing thermal conduction from the tube walls resulting in even and rapid heating almost exclusively from thermal radiation, an ideal platform.



Advanced Platform Features

- Even and rapid heating
- Improved sensitivity for some applications
- Improved batch to batch reliability
- Exclusive and patented design only from PerkinElmer!

Description	Advanced Platforr Part No.	n Advanced Platform with End Caps Part No.
5-Pack	N9307830	N9307832
10-Pack NEW	N9304644	N9304645
20-Pack	N9307831	N9307833



Standard THGA Graphite Tubes

Today's analysts expect exceptional analytical performance from their graphite furnace atomic absorption spectrometers. That performance must be reproducible from day to day with respect to sensitivity (characteristic mass), accuracy and precision.



The graphite tube, the heart of the graphite furnace, plays a vital role in the overall stability of an analysis. In order to assure stable analytical conditions from one atomization cycle to the next and from graphite tube to graphite tube, all graphite parts – contacts, tubes and platforms – must be subject to strict quality control by both the instrument manufacturer and the graphite manufacturer.

PerkinElmer's unique, transversely-heated graphite tube includes an integrated platform. The exceptionally uniform temperature distribution obtained with transverse heating significantly reduces or eliminates condensation of the sample matrix components and 'memory' effects and improves the atomization efficiency for refractory elements.

Standard THGA Graphite Tubes with End Caps

For improved characteristic mass with volatile and medium refractory elements such as Ag, As, Cd, Co, Cr, Cu, Pb, Se and Tl, the THGA graphite tubes with end caps are recommended. Note: THGA graphite tubes with end caps are not recommended for refractory elements such as V or Ba.



Features and Benefits

- Improved detection limits for volatile and medium refractory elements
- Faster drying for complex matrices due to enlarged dosing hole

Description	Standard THGA Part No.	Standard THGA with End Caps Part No.
5-Pack	B3000641	B3000653
10-Pack NEW	N9304642	N9304643
20-Pack	B0504033	B3000655
100-Pack	N3110147	

UltraClean THGA Graphite Tubes

For the lowest possible detection limits, residual contaminant levels may not be low enough to meet your



requirements. For the most demanding analyses, PerkinElmer offers UltraClean THGA graphite tubes – delivering exceptionally low levels of contamination due to advanced high-temperature gas-phase cleaning procedures. UltraClean graphite tubes offer unmatched analytical advantages for special applications such as the determination of extremely low traces of Na, Ca, Fe, Cr and Ni in ultra-clean reagents used in the semiconductor industry, and ultra-trace analyses of environmental, clinical, or food samples.

Features and Benefits

- UltraClean THGA graphite tubes have the lowest possible contamination levels due to extensive high-temperature gas-phase cleaning procedures
- UltraClean THGA graphite tubes are tested and specified for blank levels of Cr, Ni, V, Mo, Ti (<0.003 integrated absorbance units) and Na, Fe, Al, Si, Ca (<0.0005 integrated absorbance units)

Description	Part No.
5-Pack	B3140361
20-Pack	B3140362

THGA Contact Cylinders

These graphite contact cylinders are engineered for a precise fit so that variations in electrical contact – which



might affect the analytical performance – are reduced to a minimum. Contact cylinders with a modified injection port area help to minimize condensation and improve analytical performance with difficult matrices.

Standard THGA Graphite Contact Cylinders

Description	Part No.
1 Pair	B0504035
5 Pairs	B0504036

Modified THGA Contact Cylinders

Description	Part No.
1 Pair	B3002103
5 Pairs	B3002102

Accessories and Spare Parts



Description	Part No.
Spare Graphite Tip for Fume Extraction System	B0506722
THGA Quartz Window	B0198005
THGA Quartz Window Q-Ring	B0501236





THGA Instrument Mirror

Used to optimize drying temperatures and times.

Description	Part No.
THGA Instrument Mirror	B0851900

HGA Graphite Tubes

The production of high-quality graphite components requires stringent quality control. To ensure high quality and consistency, a specific grade of high-density base graphite material has been developed for PerkinElmer's exclusive use. This base graphite material is used for the manufacturing of all PerkinElmer graphite tubes.

Selection and careful control of raw materials are extremely important. The composition and the microstructure of the base graphite material determine the specific resistivity of the tube and its heating characteristics.

When you purchase graphite supplies from PerkinElmer, you get the results of our many years of experience with quality graphite parts.

The proper performance, maintenance and serviceability of our graphite furnace systems can be assured only through the use of genuine PerkinElmer graphite components.

Pyrocoated Advanced Platform Graphite Tubes

The exclusive and patented Advanced Platform design offers an alternative to our Standard Integrated Platform design. With the current Integrated Platform design, the platform attaches to the tube wall along a single side that runs the length of the platform. The new Advanced Platform design suspends the platform in the tube using three small pins in a triangular layout.

This has the advantage of minimizing wall contact and reducing thermal conduction from the tube walls resulting in even and rapid heating almost exclusively from thermal radiation, an ideal platform.

Advanced Platform Features

- Even and rapid heating
- Improved sensitivity for some applications
- Improved batch to batch reliability
- Exclusive and patented design only from PerkinElmer!

Graphite Tubes with Advanced Platform

Description	Part No.
5-Pack	N9307834
20-Pack	N9307835



Pyrocoated Graphite Tubes with Integrated Platforms

Proven in labs throughout the world, graphite tubes with integrated platforms provide superior performance and are easy to use. Graphite tubes with integrated platforms are machined from one piece of graphite and are totally pyrocoated, providing exceptional tube-to-tube reproducibility. The spherically-shaped platform accommodates up to 50 µL of sample.

Features and Benefits

- Provide STPF conditions for volatile and nonvolatile refractory elements due to the significantly higher heating rates of tube and platform, which can be used for all elements
- Offer an extra measure of convenience versus manually inserting a separate platform
- Provide longer life with many aggressive sample matrices, such as concentrated acids

Pyrocoated Graphite Tubes with Integrated Platforms

Description	Part No.
5-Pack	B3001262
20-Pack	B3001264
40-Pack	N9300651

Pyrocoated Graphite Tubes*

Description	Part No.
10-Pack	B0135653
50-Pack	B0091504

^{*}Not compatible with L'vov platforms.



Contact Cylinders

The graphite contact cylinders used in the HGA Graphite Furnace are engineered for a precise fit so that variations in electrical contact – which might affect the analytical performance – are reduced to a



minimum. The graphite contacts are shaped so that they completely encase the graphite tube. Thus, the graphite tube is located in a defined inert environment, which ensures uniform heating conditions and long tube lifetime.

Contact Cylinders

For HGA-900/850/800/700/600/300/PinAAcle H Furnaces. Includes left-hand Contact, right-hand Contact, Shield Ring.

Description	Part No.
1 Set	B0128495
5 Sets	B3130086

HGA Instrument Mirror

Used to optimize drying temperatures and times.

Description	Part No.
HGA Instrument Mirror	B0080259



Matrix Modifiers for Graphite Furnace AA

PerkinElmer provides you with the maximum performance and the lowest possible detection limits with our high-quality matrix modifiers. PerkinElmer matrix

modifiers thermally stabilize the analyte, allowing higher pyrolysis temperatures to be used, reducing background absorption and eliminating potential interferences.

Features and Benefits

- High-purity compounds minimize the risk of contamination
- Optimum graphite furnace program can be used due to reduced analyte volatility

Matrix Modifiers

Modifiers	Concentration	Volume	Part No.
Mg(NO ₃) ₂	1% Mg (as nitrate)	100 mL	B0190634
Pd	1% Pd (as nitrate)	50 mL	B0190635
NH ₄ H ₂ PO ₄	10% NH ₄ H ₂ PO ₄	100 mL	N9303445

AA Graphite for Non-PerkinElmer Instruments



PerkinElmer supplies a wide range of graphite tubes for non-PerkinElmer instrumentation. Graphite tubes are made with the highest quality material guaranteed to work for your AA instrument.

Use the convenient tables below to identify the compatible graphite furnace tube for your AA instrument.

Shimadzu® Instruments

Description	Qty./Pack	Shimadzu Part No.	Part No.
Standard Tube, Pyrolytically Coated (90° contact cone)	10	206-50588	N9304612

Thermo® Instruments

Description	Qty./Pack	Thermo Part No.	Part No.
Partridged Tube, Coated	10	9423 393 95071	N9304618

Agilent® Instruments

Description	Qty./Pack	Agilent Part No.	Part No.
Partition Tube, Pyrolytically Coated	10	63-100012-00	N9304625
Omega-Platform Tube	10	63-100037-00	N9304628



Mercury Analyzer Supplies



PerkinElmer SMS 100 Mercury Analyzer

The SMS 100 is a dedicated mercury analyzer for the determination of total mercury in solid and liquid samples using the principle of thermal decomposition, amalgamation and atomic absorption described in U.S. EPA Method 7473.

The SMS 100 uses a decomposition furnace to release mercury vapor instead of the chemical reduction step used in traditional liquid-based analyzers. Both solid and liquid matrices can be loaded onto the instrument's autosampler and analyzed without acid digestion or sample preparation prior to analysis. Some of the many sample matrices applicable to SMS 100 technology include sludges, sediments, soils, wastewaters, effluents, coal, fly ash, minerals, ores, fertilizers, various foodstuffs, blood, urine and hair.



SMS 100 Consumables and Supplies

Description	Part No.
Catalyst Tube (Packed)	N9309036
Amalgamator Tube	N9309007
Nafion® Drying Tube	N9309021
O-Ring Kit for SMS 100	N9309029

Spares Kits

Description	Qty.	Part No.
Basic Spares Kit Kit Includes:		N9309109
Amalgamator Tube	1	N9309007
Nafion® Drying Tube	1	N9309021
O-Ring Kit	1	N9309029
Extended Spares Parts Kit Kit Includes:		N9309110
Injector Fork Assembly	1	N9309012
Nafion® Drying Tube	1	N9309021
O-Ring Kits	2	N9309029

Flow Injection System



FIMS



The use of flow injection saves time, money and manpower – while at the same time, extending your analytical flexibility and capabilities.

PerkinElmer carries a wide selection of genuine supplies and accessories for your FIMS-100, FIMS-400, FIAS-100 or FIAS-400. Keeping your system in good working order by using only the best replacement parts is the first step in assuring quality analytical performance. Regular maintenance and/or replacement of consumables such as tubing, connectors and adapters will maximize the lifetime and productivity of your PerkinElmer flow injection system.

Adapters with Internal Thread

1/4 in. (6.4 mm) Internal Screw Thread

Type*	Description	Part No.
A B	A 1.8 mm OD Nipple	B0193342
АВ	B 3.3 mm OD Nipple	B0506716
C	4 mm OD Nipple	B0196850
E	For the Quartz Cell	B0196857
F	0.7 mm OD Pt/lr Capillary Nipple	B0193873

Connectors

Туре*	Description	Part No.
IA	Connector with Nipples for 1.7 to 3.2 mm ID Tubes	B0199233
IB	Connector with Nipples for 2.4 to 3.2 mm ID Tubes	B0196882
11	Connector with 1/4 in. (6.4 mm) Internal Screw Thread	B0196704
IIIA	T-piece with Nipples for 1.5 to 2.5 mm ID Tubes	B0199035
IIIB	T-piece with Nipples for 3.5 to 4.5 mm ID Tubes	B0198201

Adapters with External Thread

1/4 in. (6.4 mm) External Screw Thread

Type*	Description	Part No.
K L	1.8 mm OD Nipple	B0507918
K L	2.8 mm OD Nipple	B0507920
M	4 mm OD Nipple	B0507919
N	0.7 mm OD Pt/lr Capillary Nipple	B0507949
	Screw Plug	B0507921

 $[\]ensuremath{^{\star}}\xspace$ Type designation refers to diagrams in instrument manuals

FIAS/FIMS Cell Replacement Parts

Description	Part No.
Complete FIAS Cell and Windows	B0507486
FIAS Cell only (no windows)	B0507487
Quartz Window Assembly for FIAS and FIMS (one window)	B0066549
FIMS Complete Cell and Windows	B0510334
FIMS Cell Only (no windows)	B0510370
FIMS Hg Filter Replacement for Hg Scrubber	B3000274

Mixing/Separation Assembly

Complete modular unit, consisting of two mixing manifolds with tubing adapters, a gas liquid separator with a PTFE membrane, five spare PTFE membranes, one PTFE tube (110 mm long) and one PTFE tube (300 mm long).

Description	Part No.
Mixing/Separation Assembly	B0507957

Mixing Block

Modular 'building block' type mixing manifold with one mixing channel and three connections, two inlet and one outlet. Made from chemically-resistant plastic. Several of these blocks can be 'plugged' together easily to create a single unit with enhanced mixing capabilities.



Description	Part No.
Mixing Block	B0507962

Gas/Liquid Separator

Modular 'building block' type gas-liquid separator made from chemically-resistant plastic. An exchangeable PTFE membrane in the screw cap of the separator prevents liquid from being carried into the quartz cell when working with strong foaming samples.



	Description	Part No.
	Gas/Liquid Separator	B0507959
	Glass Gas/Liquid Separator	B0193772
	PTFE Membrane (Pkg. 50)	B0508306
Ī	Mixing Manifold for Glass Gas/Liquid Separator	B0187258

Tool, Screw Connectors

Description	Part No.
Tool, Screw Connectors	B0501315

Flow Injection Furnace Supplies

Description	Part No.
Silicone Tube	B0029796

Sample Loops

Description	Part No.
200 μL	B0194048
500 μL	B0194049
1,000 µL	B0501000

Tubing

Standard PVC clear peristaltic pump tubing has a wall thickness of 0.84 mm.

Three-Stop Peristaltic Pump Tubing, Pkg. 12

Tubing ID	Colour Code	Part No.
0.76 mm	Black/Black	B0506058
1.14 mm	Red/Red	B0193160
1.52 mm	Yellow/Blue	B0193161
2.06 mm	Violet/Violet	B0199034
3.18 mm	Black/White	B0508310

Solvent Resistant Yellow Peristaltic Pump Tubing, Pkg. 12

Tubing ID	Colour Code	Part No.
1.02 mm	White/White	B0507692

PTFE Tubing

Tubing ID	Length	Part No.
0.5 mm	1 m	B0507020
0.7 mm	1 m	B0507021
1.0 mm	1 m	B0029792
1.75 mm	1 m	B0017998

PTFE Tubing Assemblies

Tubing ID	Screw Fittings Color	Length	Part No.
1.0 mm	Blue	110 mm	B0191058
1.0 mm	Blue	300 mm	B0198097
1.0 mm	Blue	700 mm	B0191059
1.0 mm	Blue	1,000 mm	B0191060
1.75 mm	Black	250 mm	B0198099
1.75 mm	Black	450 mm	B0198100

Silicone Tubing

Description	Part No.
1 m x 5 mm ID, No Fittings	B0018283
1 m x 3 mm ID	B0070126



Flow Injection Sampling Supplies

Pump Magazines

Description	Part No.
Magazine for Peristaltic Pump One wide (>2 mm) tubing channel	B0507792
Magazine for Peristaltic Pump Two narrow (<2 mm) tubing channels	B0507791

Alternate Reductant Consumable Parts

Permits use of the FIAS-100, FIAS-400 and FIAS-400MS with an alternate reductant (e.g., $SnCl_2$ instead of $NaBH_4$).

Description	Part No.
Mixing/Separation Assembly	B0507957
700 mm Single Flanged PTFE Tubing	B0191059
PTFE Tubing (110 mm)	B0191058
Red/Red Pump Tubing (Pkg. 12)	B0193160
Adapter A	B0193342
PTFE Tubing (300 mm)	B0198097



Switching Valves

Description	Part No.
FI Switching Valve*, 8-Port For FIAS-MS	B0509095
Disassembly Tool Valve dismantling tool	B0509590
One-Way Valve	B0198111

^{*} For FI valve repair or replacement parts, please contact your local PerkinElmer Service office.



Mercury/Hydride Systems and Supplies

MHS-15

Mercury/Hydride Systems are well proven accessories for high-sensitivity determinations of mercury and metallic hydride-forming elements, including As, Se, Sb, Te, Bi and Sn by atomic absorption spectroscopy.



- Complete separation of the element being studied from its sample matrix
- Simple, highly specific operating procedures
- Reliable pneumatic control of carrier gas and transport of metallic vapors to the quartz cell
- Conveniently stands adjacent to the sample compartment of the AA spectrometer



Quartz Cells

Description	Part No.
Quartz Cell for MHS-10 and MHS-15 Complete with graphite cooling rings and silicone rubber sleeves	B0094415
Universal Quartz Cell Holder To mount MHS-10 or MHS-15 quartz cell on burner system	B3000350

Supplies

Description	Part No.
Flashback Arrestor	B0098640
Graphite Cooling Ring for Quartz Cells*	B0094413
Immersion Tube (Pipette Tip)	B0094138
Reductant Reservoir (with cap)	B0087354
Reductant Reservoir (without cap)	B0094032
Sample Flask**	B0094321
Silicone Sleeve for Quartz Cells	B0098453

^{*} For MHS-10 and MHS-15 only. ** Specially formed polypropylene reaction vessel with cover.

MHS-15 Detection Limits

Element	Detection Limit* Absolute (ng) (in 10 mL volume)	Detection Limit* Relative (µg/L) (in 50 mL volume)
As	1.0	0.02
Se	1.0	0.02
Bi	2.0	0.10
Sb	5.0	0.10
Te	2.0	0.05
Hg	1.0	0.02

^{*} EDL lamps were used for all elements



Inductively Coupled Plasma-OFS

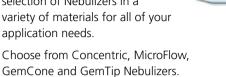
products designed to work with your PerkinElmer instruments. Our precision designed products deliver the results you need.

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Concentric Nebulizers

PerkinElmer offers a complete selection of Nebulizers in a variety of materials for all of your application needs.







Humidifiers

Argon Humidifiers are commonly used in ICP analyses involving samples with high concentrations of dissolved solids. It helps to alleviate salt deposits in the nebulizer and torch injector, allowing uninterrupted and maintenance-free operation.





Spray Chambers

The spray chamber is an integral part of the sample introduction System. Each type of spray chamber has been tested to provide the best performance and analytical results.



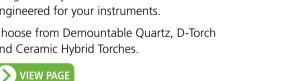




Torches

PerkinElmer carefully selects the best materials which provide optimal performance. Torches are specifically designed for your instrument. Trust the consumables engineered for your instruments.

Choose from Demountable Quartz, D-Torch and Ceramic Hybrid Torches.





PerkinElmer offers a complete selection of Injectors in various sizes and materials to meet all of your application needs.

Choose from Alumina, Sapphire and Quartz Injectors.





Avio® Max series ICP-OES - multitasking solutions for multielemental analysis

Like most industries, today's testing labs are finding novel ways to accomplish more with less – without sacrificing quality and accuracy. Enter the **Avio Max series:** reliable, dual view ICP-OES systems that are as comfortable with multitasking as you are.

With **Avio 550/560 Max** systems, you have high-throughput, fully simultaneous ICP-OES instruments that deliver exceptionally fast performance. Plus, the **Avio 560 Max** system features a built-in high-throughput sample-introduction module that yields multielemental results in as little as 30 seconds. And completing the portfolio, the hybrid simultaneous **Avio 220 Max** system provides plug-and-play performance, taking you from cold start to analysis in just 10 minutes.



Concentric Nebulizers



MEINHARD® Nebulizers

The MEINHARD® concentric nebulizers reflect exacting standards in design and manufacturing. They provide excellent sensitivity and precision for aqueous solutions and samples with few dissolved solids (less than 1%).

MEINHARD® Glass Nebulizers

Type A nebulizers are for high sensitivity. Type C and K are for high solids. Type K are for low argon flow.

Туре	Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x0	00/5x00/7x00/8x00	/ Avio 200/500		
A3	1 L/min	3 mL/min	Glass	00472020
C1	1 L/min	1 mL/min	Glass	00472022
K3	0.7 L/min	3 mL/min	Glass	N0681574
K1 LDV	0.7 L/min	1 mL/min	Glass	N0811287

Includes: N0777414, N0777460 *Standard with Avio instrument







MEINHARD® Nebulizer Replacement Parts

Description	Part No.
F5-50 Standard Nebulizer Solution Fitting, 0.5 mm PTFE. 0.5 mm x 70 cm Capillary	N0777414
F5-50-026-ZZ Liquid-End Connector Kit, 10 in. Length by 0.020 in. ID x 0.062 in. OD	N0811288
Nebulizer Clip for MEINHARD Nebulizers, Qty. 1	N0777460
MEINHARD Nebulizer Gas Line	N0791843
Quick Disconnect Tubing without Swagelock	N0770610
Nebulizer Spacer (Avio)	N0791438

FAST Valve Connecting Lines for MEINHARD® Plus Nebulizers

Description	Part No.
F2 FAST Valve Connecting Line, 0.25 mm ID (Green), 25 cm	N8145465

Direct Connection (DC) Nebulizers

The DC (Direct Connection) nebulizer is the latest design. It has a UniFit sample connector which slides easily over the sample arm and an argon connector configured to connect directly to your ICP. Includes Gas Fitting with ratchet connector (N0811308).



SeaSpray DC Nebulizers

Ar Flow Rate	Uptake Rate	Part No.
Optima 4x00/5x00/7x00/8x00 / Avio 2	00/500	
0.7 L/min	0.4 mL/min	N0811307
0.7 L/min	1 mL/min	N0811306
0.7 L/min	2 mL/min	N0811305

SeaSpray[™] Nebulizers

The SeaSpray concentric nebulizer is ideal for samples with high dissolved solids and offers outstanding nebulization efficiency for trace level analyses. Includes UniFit Connector with 0.75 mm ID x 1.3 mm OD x 700 mm long tubing (N0777512) and EzyLok Connector Kit (N0777413).



Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x00/5x00/7x00/8	8x00 / Avio 200/50)	
0.7 L/min	2 mL/min	Glass	N0775345



MicroMist™ Nebulizers

The MicroMist micro-uptake glass concentric nebulizer offers high performance for limited sample volumes. MicroMists with sample uptakes 0.2-0.6 mL/min are fitted with a UniFit connector with 1.3 mm OD x 0.50 mm ID x 700 mm long sample tubing (**N0777513**). MicroMists with sample uptakes 0.05-0.1 mL/min are fitted a UniFit connector with 1.3 mm OD x 0.25 mm ID x 700 mm long sample tubing (**N0777514**). EzyLok Connector Kit (**N07777413**) included.



SeaSpray and MicroMist Nebulizer Replacement Parts

Description	Pkg.	Part No.
UniFit		
0.50 mm ID x 1.3 mm OD x 700 mm	10	N0777513
0.75 mm ID x 1.3 mm OD x 700 mm	10	N0777512
1.30 mm OD x 0.75 mm ID x 700 mm	3	N0774077
1/16 in. OD x 0.75 mm ID x 700 mm	3	N0774080
UniFit-EzyFit Sample Tube	6	N0777061
EzyFit		
0.25 mm ID x 1/16 in. OD x 700 mm	10	N0777464
0.50 mm ID x 1/16 in. OD x 700 mm	10	N0777463
0.50 mm ID x 1/16 in. OD x 700 mm Twin	6	N0777462
UniFit-EzyFit Sample Tube	6	N0777061
EzyLok Kit		
EzyLok Kit Includes: EzyLok Connector for 4 mm Tubing, EzyLok 6 mm Hose Adaptor, Nebulizer Hose Clip		N0777413
Nebulizer Pressure Hose Clips (standard)		N0773197
Direct Connection Nebulizer Gas Fitting		
DC Nebulizer Gas Fitting with Ratchet Nebulizer C for Avio	Connector	N0811308

Conikal™ Nebulizer

Ideal for samples containing only moderate concentrations of dissolved salts, no particulates and no hydrofluoric acid. Includes UniFit Connector with 0.75 mm ID x 1.3 mm OD x 700 mm long tubing (N0777512) and EzyLok Connector Kit (N0777413).

Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x00/5x00/7x	00/8x00 / Avio 200/500		
0.7 L/min	2 mL/min	Glass	N0777487

DuraMist™ Nebulizer

The DuraMist is an economical nebulizer for high precision analyses involving samples digested in HF. Recommended for samples containing up to 5% HF.



Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x00/5x00/7x0	0/8x00 / Avio 200/50	0	
0.7 L/min	0.4 mL/min	PEEK	N0777713
0.7 L/min	1.0 mL/min	PEEK	N0777714

Mira Mist® and Ari Mist Nebulizers

The PEEK Mira Mist handles most liquids, most flow ranges used in ICP and is one of the most rugged and longest life nebulizers due to its outer body being strong PEEK material. The Ari Mist has a very low sample flow, enhanced parallel path design. Standard pressure (40-50 psi). Black PEEK body,



PTFE sample and gas capillaries. Can operate on 0.050 mL/min to 1.0 mL/min. Only for samples that are particulate free.

Description	Uptake Rate	Part No.
Optima 4x00/5x00/7x00/8x00 / Avio 200/	500	
PEEK Mira Mist Excellent mist and can handle high level of particulates in sample	0.2 to 2.5 mL/min	N0775330
PTFE Mira Mist For samples with high HF, Sulfuric and some other solvents that attack PEEK	0.2 to 2.5 mL/min	N0777031

Mira Mist® and Ari Mist Nebulizer Replacement Parts

Description	Pkg.	Part No.
0.5 m, 0.44 in. OD x .018 in. ID	1	N0777111
0.5 m, 0.44 in. OD x .018 in. ID	10	N0777112
2 mm Gas Line with Upchurch Fittings	1	N0777113
Mira Mist Quick Release	1	N0777114
0.44 in. OD x .018 in. ID Polyethylene Tubing 3 m	1	N0777116

High Efficiency MicroFlow Nebulizers

MicroFlow nebulizers are resistant to clogging, reliably self-aspirated or pumped to produce a fine aerosol for high transport efficiency and high sensitivity.

PFA-ST Nebulizers



The PFA-ST MicroFlow nebulizer is made from high purity, HF resistant

PFA. It has an exchangeable external sample uptake capillary. The sample uptake rate is controlled by the diameter of the external capillary or probe.

Features and Benefits

- Chemically resistant ideal for strong acids, alkalis and organics
- Can be pumped from < 0.1 mL/min to 3.0 mL/min
- Direct analysis of volatile and non-volatile organic solvents
- Resistant to clogging reliably self-aspirated or pumped
- Low, spike free background for important elements such as Fe and Ca

Description	Part No.
PFA-ST Nebulizer	N0777049

PolyPro-ST Nebulizer

The PolyPro-ST Nebulizer is an HF resistant alternative to the PFA nebulizers but has the same high efficiency aerosol generation.



It is a robust nebulizer that can self aspirate with an exchangeable external sample uptake capillary or be used with a peristaltic pump.

Features and Benefits

- Polypropylene construction
- Hydrofluoric acid resistant
- 0-3 mL/min sample flow rate with peristaltic pumping
- Resistant to clogging and accidental breakage

Description	Part No.
PolyPro-ST Nebulizer	N0777219

PFA-ST3 Nebulizer



The PFA-ST3 Nebulizer is designated for superior clog resistance and higher sensitivity

compared to the standard PFA nebulizer. The PFA MicroFlow is a high solids large bore nebulizer with external 1/4-28 threaded connector. Ideal for strong acids, high solids, alkalis, organic solvents, soils and high salt solutions.

Features and Benefits

- Produces a fine aerosol for high transport efficiency and high sensitivity
- Low BECs even for concentrated high purity acids (e.g. 49% HF, 69% HNO₃)
- Direct analysis of volatile and non-volatile organic solvents
- Ideal for VPD samples, high purity peroxide and ammonia

Description	Part No.
PFA-ST3 Nebulizer	N0777676



Nebulizers with Integrated Probes

These nebulizers self-aspirate at low flow rates with any autosampler and provide the same benefits of the PFA MicroFlow nebulizer. The integrated sampling probe is constructed by encapsulating a rigid support material between layers of PFA to provide a chemically-resistant probe that is mechanically stable and resilient.

PFA MicroFlow Nebulizers with Integrated Autosampler Probes

For environmental/clinical applications. These nebulizers self-aspirate at low flow rates with any autosampler and provide the same benefits of the PFA MicroFlow nebulizer. The integrated sampling probe is constructed by encapsulating a rigid support material between layers of PFA to

provide a chemically-resistant probe that is mechanically stable and resilient.

Carbon Fiber Probes for ST Nebulizers

ST nebulizer probes connect directly to any ST-type nebulizer. The 1/4-28 threaded fitting provides a secure, zero-dead-volume connection with no additional fittings required.



ID	Aspiration Rate @ 1 L/m Ar	Length	Part No.
0.25 mm	100 μL/min	80 cm	N0777223
0.50 mm	400 μL/min	80 cm	N0777225
0.25 mm	100 μL/min	150 cm	N0777826

Carbon Fiber support for Environmental/Clinical Applications.

Description	Aspiration Rate @ 1 L/m Ar	Part No.
PFA-100 PFA (Carbon Fiber Support), Length 100 cm	100 μL/min	N0777216

GemCone and GemTip Nebulizers

GemCone™ Low-Flow Nebulizer

Low-flow GemCones permit lower nebulizer gas flow rates, useful for spectral lines with high excitation energies and for providing a more robust plasma. GemCone Nebulizers require an end cap for use with Scott Spray Chambers.



Description	Part No.
GemCone Low-Flow Nebulizer	N0770358

GemCone High Dissolved Solids Nebulizer

High solids GemCones are for samples with high dissolved solids (up to 20%). This conespray nebulizer allows you to analyze samples with higher solids concentration than is possible with a Cross-Flow nebulizer. GemCone nebulizers require an end cap (Part No. **N0680343**) for use with Scott Spray Chambers.



Description	Part No.
GemCone High Dissolved Solids Nebulizer	N0690670
GemCone High Dissolved Solids Nebulizer with Quick Disconnect Tubing (N0770336)	N0770720



GemCone Nebulizer Replacement Parts

Description	Part No.
GemCone Sample Capillary Adapter	N0371505
Scott Spray Chamber End Cap for GemCone Nebulizers	N0680504
Quick Disconnect Tubing with Swagelock	N0770336
Quick Disconnect Tubing without Swagelock	N0770610
Capillary Tubing (10 ft.)	09908265
PTFE Capillary Tubing (1 ft.)	09985708





GemTip Cross-Flow II Nebulizers

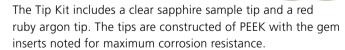
Excellent general purpose nebulizer for the analysis of strong mineral acids (including HF) and samples with less than 5% dissolved solids. It can routinely handle 50% (v/v) solutions of HCl, HNO $_3$, H $_2$ PO $_4$, 20% (v/v) HF and 30% (v/v) NaOH. Up to 20% NaCl can be aspirated by the nebulizer for 1 hour without clogging. Uses chemically resistant GemTips made of sapphire and ruby in a chemically resistant end cap.

ICP Model	Part No.
Optima 8x00 / Avio 200/500	N0780546
Optima 2x00/4x00/5x00/7x00	N0770546

GemTip Nebulizer O-Ring Kit

Description	Part No.
GemTip [™] Cross-Flow Nebulizer O-Ring Kit Includes: 09902001 Qty. 2, 09902033 Qty. 2, 09902151 Qty. 3, 09921003 Qty. 1, 3 cm of PTFE Sample Tubing	N9300067

GemTip Cross-Flow II Nebulizer Tip Kits



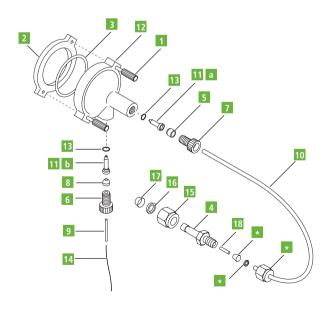
ICP Model	Part No.
Optima 8x00 / Avio 200/500	N0780676
Optima 2x00/4x00/5x00/7x00	N0690676

See next page for GemTip Cross-Flow II

Nebulizer Replacement Parts

GemTip Cross-Flow II Nebulizer Replacement Parts

	Description	Part No.
1	Screws (two) – Knurled	
2	Ring	
3	O-Ring, 18W, 1-3/8 ID, 1-5/8 OD	09902033
4	Fitting Reducer 1/8 TBG, 1/4 Port	
*	These parts are included with item 4	
5	Ferrule – TBG 1/8 Tefzel	09920515
6	Nut – TBG Flanged 0.0625 PEEK	09920546
7	Nut – TBG Flanged 0.125 PEEK	09920545
8	Ferrule – TBG 1/16 Tefzel	09920518
9	Tubing, 0.032 ID x 0.016 Wall, PTFE (per foot)	09985708
10	Tubing, 0.06 ID x 1/8 OD, PTFE (per foot)	
11 a b	Tip Kit for Cross-Flow Nebulizer Argon and Sample tip (one each) Argon Tip (Red) Sample Tip (Clear)	N0690676
12	End Cap Cross-Flow Nebulizer	
13	O-Rings (two) 0.126 ID, 0.040 WD, Viton	09921045
14	Tubing (10 ft.) — 0.023 ID, Clear	09908265
15	Nut – Hex – 0.250 TBG BRS	
16	Ferrule – Back 1/4 BRS	
17	Ferrule – Front 1/4 BRS	09903103
18	Insert – Tubing	
	Barbed coupler – Not Shown	



Nebulizer Cleaners

The Eluo™ Nebulizer Cleaner



The Eluo is designated to efficiently deliver a cleanser through the nebulizer capillary to dislodge particle build-up and thoroughly clean the nebulizer. One simple action does it all. No more messy procedures, waiting overnight or shattered nebulizers in ultrasonic baths.

Description	Part No.
For Newer OpalMist, PolyCon, DuraMist, MEINHARD, Other Glass Nebulizers	N0777712
For OLD Style OpalMist or PolyCon Nebulizers	N0775358

Humidifiers

Elegra Argon Humidifier

The Elegra Argon Humidifier helps to alleviate salt deposits in the nebulizer and torch injector, allowing uninterrupted and maintenance-free operation.



ICP Model	Part No.
Optima 2x00/4x00/5x00/7x00/8x00 / Avio 200/500	N0781598

pergo Argon Humidifier

The *pergo* improves performance of all concentric nebulizers for the routine analysis of brines, fusion digests and other high-TDS samples. A high-pressure membrane positioned inside a temperature-controlled water reservoir perfuses water vapor into the ICP



nebulizer gas stream. By increasing humidity in the argon nebulizer gas, the *pergo* prevents salt deposits at the nebulizer tip, improving short and long-term signal stability. *pergo* 2 dual Argon humidifier is for analyses dealing with high concentrations of dissolved solids on instruments using auxiliary gas. Includes gas line connector kit.

ICP Model	Description	Part No.
Optima/Avio	pergo 1 without Nebulizer	N8145315
Optima/Avio	<i>pergo</i> 1 with MEINHARD Type C Nebulizer	N8145316
Optima/Avio	pergo 1 with PFA-ST Nebulizer	N8150427

Cyclonic Spray Chambers







Cyclonic O-Ring Free Spray Chamber Part No. **N0775351**

The spray chamber is an integral part of the sample introduction system responsible for filtering the sample mist to permit the appropriate droplet size distribution to reach the plasma.

Standard and 0-Ring Free glass cyclonic spray chambers can be used with either GemCone or concentric glass nebulizers. HF resistant cyclonic spray chambers should be used with GemCone, SeaSpray or MicroMist nebulizers.

Glass Spray Chambers

ICP Model	Туре	Part No.
2x00/4x00/5x00/7x00/8x00	Standard*	N0776052
2x00/4x00/5x00/7x00/8x00	O-Ring Free	N0775351

*Standard Cyclonic Spray Chamber (N0776052) with Adapter (N0770614): Spray Chamber Kit with Mount Part No. N0770605





Quartz Spray Chambers

ICP Model	Туре	Part No.
2x00/4x00/5x00/7x00/8x00	Non-baffled Cyclonic Spray Chamber	N0777635
2x00/4x00/5x00/7x00/8x00	7 mm Baffled Cyclonic Spray Chamber	N0777036

Include drain line (N8141425)



The Cinnabar glass spray chamber is a mini-cyclonic spray chamber which gives good sensitivity at very low uptakes. The Cinnabar's design and low volume is ideal for the reduction of memory and matrix effects and very fast washout. Volume 20 mL.

ICP Model	Туре	Part No.
2x00/4x00/5x00/7x00/8x00	O-Ring Free	N0777494

Baffled Cyclonic Spray Chambers







Oxygen Port Spray Chamber Part No. **N0777731**

The Baffled Cyclonic Spray Chamber features a central transfer tube which acts as a secondary particle separator, helping to separate larger aerosol particles from the sample. This reduces solvent load in the plasma without compromising detection limits.

ICP Model	Туре	Part No.
Avio 200/500	O-Ring Free	N0791352
Avio 200/500 for Oil Analysis with Oxygen Port	O-Ring Free	N0770389
Avio 200 Quartz 8 mm PFA Adapter	O-Ring Free	N0791842
Avio 500 Quartz 12/5 Socket	O-Ring Free	N0811900
2x00/4x00/5x00/7x00 DV/8x00	Standard	N0776053
2x00/4x00/5x00/7x00 DV/8x00	O-Ring Free	N0775352
2x00/4x00/5x00/7x00 DV/8x00 for Oil Analysis (4 mm Baffle)	Standard	N0776090
2x00/4x00/5x00/7x00 DV/8x00 for Oil Analysis (4 mm Baffle)	O-Ring Free	N0775355
2x00/4x00/5x00/7x00 DV/8x00 for Oil Analysis (4 mm Baffle) with Oxygen Port	O-Ring Free	N0777731
4300V/5300V/7300V	Standard	N0771501
4300V/5300V/7300V	O-Ring Free	N0775356



Metal Ball Joint Clip

Used to connect spray chamber and torch.

Description	Part No.
Metal Ball Joint Clip	09200593

Spray Chamber Replacement Parts and Accessories





Part No. **N0770614**

Part No. N0770600







Part No. **N0777438**

Part No. **N0777439**

Part No. **N0791438**

Description	Part No.
Cyclonic Spray Chamber Adapter (Optima)	N0770614
Mounting Block Only (Optima)	N0770600
Drain Cap Assembly	N0690271
Helix Locking Screw, Pkg. 1	N0777438
Helix Seal, Pkg. 4	N0777439
Nebulizer Adaptor Plug 16/6 for N0776052 Spray Chamber	N0776006
O-Ring Set for Nebulizer Adaptor Plug 16/6	N0776007
Nebulizer Spacer (Avio)	N0791438
Quick-Change Torch Module Support Stand (Optima)	N0770609



See Quick Change Torch Modules and Sample Introduction Kits on the following pages





HF Resistant Spray Chambers

ICP Model	Part No.
Avio 200/500 (with grounding strap)	N0790373
4300/5300/7300V TFE PTFE, 50 mL	N0777497
2x00/4x00/5x00/7x00 DV/8x00 TFE PTFE, 50 mL	N0777496



PFA Spray Chambers

All-purpose spray chambers which offers resistance to hydrofluoric acid. Constructed entirely from chemically inert PFA, the PureChamber is available in low flow format for maximum aerosol transport and high flow format, ideal for ICP-AES applications. The PureCap accepts any 6 mm nebulizer but is ideally suited for the PFA MicroFlow nebulizer providing an O-Ring free PFA sample introduction system.

- Chemically inert PFA construction results in low contamination and long life time
- O-Ring free seal reduces contamination and provides an easy to clean low maintenance system

Description	ICP Model	Part No.
PFA 47 mm M-200	Avio 200/500	N0791847



Scott Spray Chambers

The Scott Spray Chamber is made from a corrosion-resistant material, which is inert to most mineral acids including HF, aqua regia and all organic solvents normally used in ICP analyses. The Scott-type design minimizes pulsations from the peristaltic pump.

ICP Model	Part No.
Avio 200/500	N0790384
2x00/4x00/5x00/7x00/8x00	N0770357

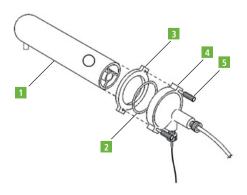
Scott Spray Chamber Replacement Parts

Description	Part No.
Scott Spray Chamber Clamp Adapter (Avio)	N0790296
O-Ring	09902033

Spray chamber, end cap and associated parts

Illustration shows cross-flow nebulizer end cap assembly Part No. **N0780546**.

	Description	Part No.
1	Scott Spray Chamber	N0790384
2	O-Ring	09902033
3	End Cap Ring	
4	End Cap (not complete assembly)	
5	Knurled Screw (2)	



Temperature Controlled Spray Chambers

PC³ Peltier Temperature Controlled Spray Chambers

The PC 3x for Avio is a compact, Peltier-heated or cooled inlet system which incorporates the ESI cyclonic spray chamber. In cooling mode the PC 3x cools the outer walls of the cyclonic spray chamber that operates at -10°C to +80°C, reducing the water or solvent vapor loading on the plasma, resulting in enhanced stability and performance. In heating mode, sensitivity can be improved for low flow rate applications.

The PC³ is a compact Peltier cooled inlet system which incorporates the ESI cyclonic spray chamber. The peltier within the PC³ is air cooled, as such the system can be connected to any ICP. The PC³ cools the outer walls of the cyclonic spray chamber reducing the water or solvent vapor loading on the plasma resulting in enhanced stability and performance. The PC³-LT operates at -20°C to reduce the solvent load on the plasma for analysis of 100% volatile organic solvents.



- Thermal stabilization of spray chamber improves long-term stability
- Default settings of spray chamber temperature (+2°C/ -5°C) for aqueous or organic solvents. Custom temperature settings are available upon request
- Interchangeable quartz, PFA and borosilicate cyclonic spray chambers available
- Fast rinse-out using PFA-ST nebulizer and O-Ring free quartz cyclonic spray chamber
- Reduced oxides

Description	Part No.
PC ³ Temperature Controlled Spray Chambers for Avio	
PC ^{3x} Peltier Cooled Cyclonic Spray Chamber for Avio 200	N0790959
PC ^{3x} Peltier Cooled Cyclonic Spray Chamber for Avio 500	N0810860
PC ³ Temperature Controlled Spray Chambers for Optima	
PC³ Organic Sample Introduction Kit, 1.5 mm Quartz injector	N0777354
PC ³ -LT Organic Sample Introduction Kit, 1.0 mm Quartz Injector	N0777356
PC ^{3x} Complete system	N0777836

^{*}Injector and nebulizer are not included







IsoMist Spray Chamber

IsoMist Temperature Controlled Spray Chambers

The IsoMist Programmable Temperature Controlled Spray Chamber provides the benefits of a temperature-controlled ICP sample introduction system in a compact, convenient package. The temperature is electronically controlled using a powerful inbuilt Peltier device. You can select any temperature between -10°C and +60°C in 1°C increments to provide the optimum conditions for any application. The rapid response of the Peltier device allows a spray chamber temperature of -5°C to be reached within 15 minutes.

The IsoMist XR programmable temperature controlled cyclonic spray chamber now features an improved thermodynamic design providing an extended temperature range and faster cool-down, so your ICP is ready to go sooner. IsoMist XR has a peltier unit with a range of -25°C to +80°C.

Features and Benefits

- Improve Analytical Stability
- Reduce Oxide Formation
- Perfect for Volatile Organics
- Constant Temperature Improves Analytical Stability
- Enhance Sensitivity with Elevated Sample Introduction Temperatures

ICP Model	Description	Part No.
Avio	IsoMist XR Quartz	N0810858
Optima 4x00/5x00/7x00 DV/8x00	IsoMist XR PFA	N0780760
Optima 4x00/5x00/7x00 DV/8x00	IsoMist XR Quartz	N0780761

Sample Introduction Quick Change Torch Modules Part No. N0790607

Quick Change Torch Module Cyclonic Spray Chamber/Concentric Nebulizer

ICP Model	Part No.
Avio 200 Includes:	N0790607
Type K1 Standard Nebulizer	N0777707
1 Slot Quartz Torch	N0790131
2.0 mm Alumina Injector	N0791183
Baffled Cyclonic Spray Chamber	N0791352
Torch Body Assembly for Avio 200	N0790138
Injector Adapter	N0790141
Avio 500 Includes:	N0810607
Type K1 Standard Nebulizer	N0777707
1 Slot Quartz Torch	N0790131
2.0 mm Alumina Injector	N0791183
Baffled Cyclonic Spray Chamber	N0791352
Torch Body Assembly for Avio 500	N0810128
Injector Adapter	N0790141





Quick Change Torch Module Scott Spray Chamber/Cross-Flow Nebulizer

ICP Model	Part No.
Avio 200	N0790606
GemTip Cross-Flow Nebulizer	N0780546
1 Slot Quartz Torch	N0790131
2.0 mm Alumina Injector	N0791183
Scott Spray Chamber	N0791499
Torch Body Assembly for Avio 200	N0790138
Injector Adapter	N0790156
Avio 500	N0810606
GemTip Cross-Flow Nebulizer	N0780546
1 Slot Quartz Torch	N0790131
2.0 mm Alumina Injector	N0791183
Scott Spray Chamber	N0791499
Torch Body Assembly for Avio 500	N0810128
Injector Adapter	N0790156

Organics Sample Introduction System

ICP Model	Part No.
Avio 200 Includes:	N0790611
GemCone Low-Flow Nebulizer	N0770358
Injector Adapter Kit-Cyclonic with O-Rings	N0790141
Hybrid XLT 3 Slot Torch Avio	N0790249
Alumina Injector 1.2 mm Length Avio	N0791182
Baffled Cyclonic Spray Chamber Avio	N0791352
Torch Body Assembly for Avio 200	N0790138
Avio 500 Includes:	N0810609
GemCone Low-Flow Nebulizer	N0770358
Injector Adapter Kit-Cyclonic with O-Rings	N0790141
Hybrid XLT 3 Slot Torch Avio	N0790249
Alumina Injector 1.2 mm Length Avio	N0791182
Baffled Cyclonic Spray Chamber Avio	N0791352
Torch Body Assembly for Avio 500	N0810128



Quick-Change Torch Module with Cyclonic Spray Chamber and Concentric Nebulizer

ICP Model	Part No.
Optima 8x00 Includes:	N0780607
MEINHARD Type K1 Nebulizer 1 mL/Min	N0777707
1 Slot Quartz Torch	N0780130
Alumina Injector 2.0 mm ID	N0781014
Polyethylene Tubing, 10 ft.	09908265
Adjustable Torch Assembly	N0770600
Cyclonic Spray Chamber with Adjustable Mount	N0770605
Tubing Assembly	N0770610
Optima 2x00/4x00/5x00/7x00 Includes:	N0770607
MEINHARD Type C1 Nebulizer 1 mL/Min	00472022
Polyethylene Tubing,10 ft.	09908265
1 Slot Quartz Torch	N0770338
Adjustable Torch Assembly	N0770600
Cyclonic Spray Chamber with Adjustable Mount	N0770605
Tubing Assembly	N0770610
Alumina Injector 2.0 mm	N0775177

Components of Quick-Change Torch Module for HF Analysis

ICP Model	Part No.
Optima 4300V/5300V/7300V	
GemCone High Dissolved Solids Nebulizer	N0690670
Alumina Sample Injector 2.0 mm ID	N0695362
Quick Disconnect Tubing	N0770336
3 Slot Quartz Torch	N0771500
Tracey TFE Spray Chamber Includes: Fittings, O-Rings and Spares	N0777497

Quick-Change Torch Module for Oil Analysis

ICP Model	Part No.
Optima 4300V/5300V/7300V Includes:	N0770910
GemCone Low-Flow Nebulizer	N0770358
Alumina Injector 1.2 mm	N0771531
Quick Disconnect Tubing	N0770336
3 Slot Quartz Torch	N0771500
Baffled Cyclonic Spray Chamber Includes: Fittings, O-Rings and Spares	N0771501



Quick-Change Torch Module with Scott Spray Chamber and GemTip Cross-Flow II Nebulizer

ICP Model	Part No.
Optima 8x00 Includes:	N0780606
1 Slot Quartz Torch	N0780130
GemTip Cross-Flow II Nebulizer	N0780546
Alumina Injector 2.0 mm ID	N0781014
Scott Spray Chamber	N0770357
Optima 2x00/4x00/5x00/7x00 DV Includes:	N0770606
1 Slot Quartz Torch	N0770338
GemTip Cross-Flow II Nebulizer	N0770546
Adjustable Torch Assembly	N0770600
Alumina Injector 2.0 mm	N0775177
Scott Spray Chamber	N0770357

Mounting Block

Mounting block only. Does not include torch, injector, spray chamber or nebulizer.



ICP Model	Part No.
Optima 2x00/4x00/5x00/7x00/8x00	N0770600

Quick-Change Torch Module Support Stand

A free-standing support stand to hold your spare Quick-Change Torch Module.



ICP Model	Part No.
Optima 2x00/4x00/5x00/7x00 DV/8x00	N0770609

End Cap for Concentric Glass, GemCone and Similar Nebulizers

End cap to fit any concentric nebulizer onto a Scott Spray Chamber.



ICP Model	Part No.
Optima 2x00/3x00/4x00/5x00/7x00/8x00 / Avio 200/500	N0680504

Sample Introduction Kits







Part No. N0790384

Cyclonic/Concentric Kits

ICP Model	Part No.
Avio 200/500 Includes:	N0790608
1 Slot Quartz Torch	N0790131
2.0 mm ID Alumina Injector	N0791183
Baffled Cyclonic Spray Chamber	N0791352
MEINHARD® Type K1 Nebulizer	N0777707
Injector Adapter	N0790141
Optima 8x00 Includes:	N0780617
1 Slot Quartz Torch	N0780130
2.0 mm ID Alumina Injector	N0781014
Glass Cyclonic Spray Chamber	N0776052
MEINHARD® Type K1 Nebulizer	N0777707
Quartz Torch Copper Ignitor Tape — Qty. 50 pcs.	N0781097
Optima 2x00/4x00/5x00/7x00 DV*	
1 Slot Quartz Torch	N0770338
Quartz Bonnet	N0775289
2.0 mm ID Alumina Injector	N0775177
Glass Cyclonic Spray Chamber	N0776052
MEINHARD® Type C High Dissolved Solids Nebulizer	00472022
Quartz Torch Copper Ignitor Tape — Qty. 120 pcs.	N0775297

Scott/Cross-Flow II Kits

ICP Model	Part No.
Avio 200/500 Includes:	N0790609
1 Slot Quartz Torch	N0790131
2.0 mm ID Alumina Injector	N0791183
Scott Spray Chamber	N0790384
GemTip™ Cross-Flow II Nebulizer	N0780546
Injector Adapter	N0790156
Scott Spray Chamber Clamp Adapter	N0790296
Optima 8x00*	
1 Slot Quartz Torch	N0780130
2.0 mm ID Alumina Injector	N0781014
Scott Spray Chamber	N0770357
GemTip™ Cross-Flow II Nebulizer	N0780546
Quartz Torch Copper Ignitor Tape — Qty. 50 pcs.	N0781097
Optima 2x00/4x00/5x00/7x00 DV Includes:	N0770731
1 Slot Quartz Torch	N0770338
Quartz Bonnet	N0775289
2.0 mm ID Alumina Injector	N0775177
Scott Spray Chamber	N0770357
GemTip™ Cross-Flow II Nebulizer	N0770546
Quartz Torch Copper Ignitor Tape — Qty. 120 pcs.	N0775297

^{*}Kit components must be purchased individually



INDUCTIVELY COUPLED PLASMA-OES





Part No. N0772006

Organics Kits

ICP Model	Qty.	Part No.
Avio 200/500 Includes:		N0790610
3 Slot Quartz Torch	2	N0790249
1.2 mm ID Alumina Injector (1.2 mm entire length of tube)	2	N0791182
Baffled Cyclonic Spray Chamber	1	N0791352
GemCone™ Low-Flow Nebulizer	1	N0770358
Cyclonic Spray Chamber Adapter	1	N0790141
Nebulizer Spacer	1	N0791438
Optima 8x00 Includes:		N0780608
3 Slot Quartz Torch	2	N0780132
1.2 mm ID Alumina Injector	2	N0781007
Baffled Cyclonic Spray Chamber 4 mm	1	N0776090
Gemcone™ Low-Flow Nebulizer	1	N0770358
Cyclonic Spray Chamber Adapter	1	N0770614
Injector Adapter Washer	1	N0776014
Injector Adapter	1	N0776091
Injector Adapter Nut	1	N0776025
Optima 2x00/4x00/5x00/7x00 DV Includes:		N0770420
3 Slot Quartz Torch	1	N0772005
1.2 mm ID Alumina Injector	1	N0776093
Baffled Cyclonic Spray Chamber 4 mm	1	N0776090
Gemcone™ Low-Flow Nebulizer	1	N0770358
Cyclonic Spray Chamber Adapter	1	N0770614
Injector Adapter Washer	1	N0776014
Injector Adapter Nut	1	N0776025
Injector Adapter	1	N0776091
Optima 4300 V/5300 V/7300 V*		
3 Slot Quartz Torch	1	N0771500
Quartz Bonnet	1	N0775289
1.2 mm ID Alumina Injector	1	N0771531
Baffled Cyclonic Spray Chamber	1	N0771501
GemCone™ Low-Flow Nebulizer	1	N0770358
Quartz Torch Copper Ignitor Tape	120	N0775297

Oxygen Addition Kits

ICP Model	Qty.	Part No.
Oxygen Addition Kit Avio 200/500 Includes:		N0790412
Baffled Cyclonic Spray Chamber 4 mm for Oils with Oxygen Port	1	N0770389
Mass Flow Controller	1	N0772006
ICP Model	Qty.	Part No.
DV Oxygen Addition Kit Optima 2x00/4x00/5x00/7x00/8x00 DV Includes:		N0770689
Baffled Cyclonic Spray Chamber 4 mm for Oils with Oxygen Port	1	N0777731
Mass Flow Controller	1	N0772006
Adapter for Cyclonic Spray Chamber	1	N0770614
ICP Model	Qty.	Part No.
V Oxygen Addition Kit Optima 4300 V/5300 V/7300 V Includes:		N0770965
Torch Adapter with Auxiliary Oxygen Port	1	N0774070
Mass Flow Controller	1	N0772006

Hydride Accessory Kit

ICP Model	Qty.	Part No.
Hydride Accessory Kit Avio 200/500 Includes:		N0810433
Silicone Tubing ID 5mm Thickness x 2 mm	1	B0018283
PTFE Tubing, 110 mm	1	B0191058
PTFE Tubing, 700 mm	1	B0191059
1.52 mm ID Tubing, Blue/Yellow/Blue, Pkg. 12	1	B0193161
Adapter A/D with Intern Screw Thread 1.8mm	1	B0193342
Adapter C / D = 4,0	1	B0196850
Adapter E / D = 6,0	1	B0196857
Tubing Connector for FIAS-400MS	2	B0196882
PTFE Tubing, 300 mm	2	B0198097
Tubing Adapter K	1	B0507918
Mixing/Separation Assembly	1	B0507957
PTFE Membrane, Pkg. 50	1	B0508306
3.18 mm ID, Black/White/Black Pkg. 12	1	B0508310
PVC Tubing for 2 mL/mm, P40	1	N0680375
Ultrasonic Axial Adapter	1	N0695426
Quick Disconnect Tubing for 2000/4000	1	N0770336

 $[\]ensuremath{^{\star}}\xspace\ensuremath{\text{Kit}}$ components must be purchased individually

Demountable Quartz Torches

Avio Torch Part No. **N0790131**

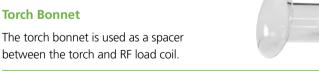
Demountable design using one-piece quartz tubing for plasma and auxiliary gas flow. Torches without slots are recommended for organic solvents. 1-slot torches are the standard torch for aqueous solutions. 3-slot torches are typically used for organic analysis.

ICP Model	No. of Slots	Part No.
Avio 200/500 (Standard Torch)	1	N0790131
Avio 200/500 Organics (not ceramic)	3	N0790249
8x00 HybridXLT (ceramic tip)	1	N0780128
8x00	0	N0780133
8x00 (Standard)	1	N0780130
8x00	3	N0780132
2x00/4x00/5x00/7x00 DV	0	N0770343
2x00/4x00/5x00/7x00 DV (short ver.)	0	N0770344
2x00/4x00/5x00/7x00 DV	1	N0770338
2x00/4x00/5x00/7x00 DV	3	N0772005
2x00/4x00/5x00/7x00 DV Organics	3	N0772008
4300V/5300V/7300V	3	N0771500
7300 V Organics	3	N0771561

Fixed Torches can be found on the next page.

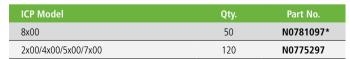
Torch Bonnet

between the torch and RF load coil.



ICP Model	Part No.
2x00/4x00/5x00/7x00	N0775289

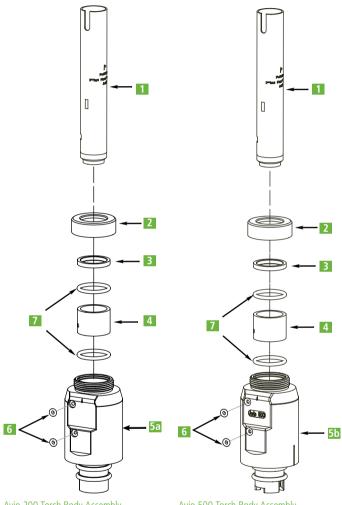
Copper Ignitor Tape



^{*}Ignitor tape for Optima and HybridXLT Torches

Torch Body Assemblies

ICP Model	Part No.
Avio 200	N0790138
Avio 500	N0810128



Avio 200 Torch Body Assembly Part No. **N0790138**

Avio 500 Torch Body Assembly Part No. **N0810128**

Torch Body Assembly Replacement Parts

	Description	Part No.
1	Torch Glass	N0790131
2	Knurled Nut	N0776027
3	Washer	
4	Spacer	N0791125
5a	Cassette for Avio 200 Torch Body Assembly	N0790214
5b	Cassette for Avio 500 Torch Body Assembly	N0810214
6	O-Ring Color Coded Blue	N0791334
7	O-Ring	09902223



ICP Model		Part No.
Avio 200/500 O-Ring Kit for Adjustable To Includes: 0.799 ID 0.103 WD 09902223 (2) 0.101 ID 0.070 WD N0791334 (2)	rch	N0790437
Avio 200/500 O-Ring Kit for Scott Injector Includes: 8.74 ID 1.78 WD 09200518 (2) 0.239 ID 0.70 WD 09902207 (2) 0.344 ID 0.070 WD N0791333 (2)		N0790440
Avio 200/500 O-Ring Kit for Cyclonic Inject Includes: 0.239 ID 0.70 WD 09902207 (2) 0.301 ID 0.70 WD 09926070 (2) 0.344 ID 0.070 WD N0791333 (2)	ctor	N0790441
8x00 Complete O-Ring Kit Includes: 1.171 ID, 0.139 WD 09902131 (1) 0.799 ID, 0.103 WD 09902223 (2) 1.109 ID, 0.139 WD 09921061 (1) 1.046 ID, 0.139 WD 09921062 (1)		N0780437
2x00/4x00/5x00/7x00 DV Complete O-Rir Includes: 0.801 ID 0.070 WD 09902045 (1) 1.171 ID 0.139 WD 09902131 (1) 0.799 ID 0.103 WD 09902223 (2) 1.109 ID 0.139 WD 09921061 (1) 1.046 ID 0.139 WD 09921062 (1)	ng Kit	N0770437
4300V/5300V/7300V Complete O-Ring Ki Includes: 0.612 ID 0.103 WD 09902155 (1) 0.239 ID 0.070 WD 09902207 (2) 0.364 ID 0.070 WD 09902247 (2) 0.301 ID 0.070 WD 09926070 (1)	t	N0770916
Avio 200/500	0.101 ID, 0.070 WD	N0791334
Avio 200/500	0.344 ID, 0.070 WD	N0791333
Avio 200/500	8.74 ID, 1.78 WD	09200518
AVIU 200/300	0.7 1 10, 1.70 110	09200516
2x00/4x00/5x00/7x00 DV/8x00 (Viton)	0.799 ID, 0.103 WD	09200318
	•	

Ceramic Hybrid XLT Quartz Torch

PerkinElmer's HybridXLT™ torch is the latest addition to the family of PerkinElmer genuine sample introduction components. The ceramic/quartz hybrid design provides the highest performance for your Optima® ICP-OES 8x00 spectrometer. Available only from PerkinElmer, this torch has an extended lifetime of up to 10x your current quartz torch, increasing instrument uptime and decreasing maintenance costs.



Features and Benefits

- Extended Torch Lifetime up to 10x improvement
- Viewable plasma compared to a full ceramic design
- Ideal for all sample types, except organic solvents
- Increased instrument uptime
- Lower cost per analysis
- Exclusive patented design
- Lower cost than full ceramic torches

Only From PerkinElmer!

ICP Model	No. of Slots	Part No.
8x00	1	N0780128

D-Torch Demountable Torch

D-Torch Demountable Torch Part No. **N0790442**

The D-Torch™ provides a demountable torch design without sacrificing performance or usability. Featuring a torch body with fixed alumina intermediate tube for greater robustness, in addition to a demountable outer tube and injector, the D-Torch significantly reduces torch replacement costs for the analysis of challenging sample matrices.

The optional ceramic outer tube is of particular benefit for ICP applications where a quartz outer tube will suffer from a short lifetime. High TDS applications cause quartz to rapidly devitrify and organic solvents can cause quartz to fracture, whereas the ceramic outer tube will last years under the same conditions.

Features and Benefits

- Analysis of high-matrix solutions (i.e. fusion samples, samples with high-dissolved solids, samples with high-acid content) which can cause early devitrification or sample deposition when using quartz
- Demountable outer tube With the D-Torch, you need only replace the outer tube
- Interchangeable quartz and ceramic outer tubes
- Interchangeable injectors choose the optimum injector for your application. Select from quartz for aqueous solutions, narrow bore for organics, wide bore for high dissolved solids or ceramic for HF



Ceramic Outer Tube Part No. **N0777880**

D-Torch™ and Replacement Parts

ICP Model	Description	Part No.
Avio 200	D-Torch Complete Assembly with Quartz Outer Tube	N0790442
Avio 500	D-Torch Complete Assembly with Quartz Outer Tube	N0810861
Avio 200	D-Torch Ceramic Outer Tube (optional)	N0791303
Avio 500	D-Torch Ceramic Outer Tube (optional)	N0811912
Avio 500	D-Torch Body	N0811904
Avio 200/500	D-Torch Outer Tube	N0791301
8x00	D-Torch Assembly including Quartz Outer Tube	N0777840
8x00	Ceramic Outer Tube (optional)	N0777880
8x00	Base and Inner Tube	N0777841
8x00	Quartz Outer Tube	N0777842
2x00/4x00/5x00/7x00*	DV D-Torch Quartz including Outer Tube	N0777508
2x00/4x00/5x00/7x00	DV Base and Inner Tube	N0777509
2x00/4x00/5x00/7x00	DV Quartz Outer Tube	N0777510
	Retaining Ring for Outer Tube	N0777055
	Copper Tape for D-Torch Outer Tube	N0777843
	O-Ring Kit	N0777715
	Torch Adapter with Auxiliary Port	N0774070

^{*}Ceramic outer tube is not available for this model

Load Coils and Purge Components



RF Load Coils*

ICP Model	Part No.
3x00 XL/3x00 DV	N0690772

^{*} Installation by PerkinElmer Service is required, but not included

Purge Component Replacement Parts

Description	Part No.
For 5x00/7100/7200/7300 DV/8300	
O-Ring (for Dual View Radial Purge Tube)	09200064
For Optima 2100/7000/8000	
O-Ring (for Dual View Radial Purge Tube)	09921036



Nitrogen Purge Gas Generator

Description	Part No.
Nitrogen Purge Gas Generator without Air Compressor, 115V, 60 Hz.	N0695468



Purge Extension Windows

The Axial View Purge Extension Window is a replaceable quartz window that slides into the purge extension between the torch and the optics. The Radial View Purge Extension Window Tube is a replaceable quartz tube that slides into the mount between the torch and the optics for the radial view.

ICP Model	Description	View	Part No.
Avio 200/500	Purge Window	Axial	09992731
Avio 200	Purge Window	Radial	N0690672
Avio 500	Purge Window	Radial	N0810346
Avio 200	Optical Kit (includes Windows O-Rings)	Axial/Radial	N0790439
Avio 200 Axial	Flat Mirror Kit	Axial	N0790196
Avio 500	Optical Kit (includes Windows and O-Rings)	Axial/Radial	N0810439
Avio 500	Flat Mirror Kit	Axial	N0810194
2x00/7000/8000	Purge Window	DV Axial	09992731
2x00/7000/8000	Purge Window	DV Radial	N0690672
2X00 (long tube)	Purge Window	Radial	B0810377
3x00/4x00/5x00/7100 /7200/7300 DV /8300	Purge Window	DV Axial	N0771116
5x00/7100/7200/7300 DV/8300	Purge Window	DV Radial	N0770944
3x00 DV (long tube) (38 mm/1.5 in.)	Purge Window	DV Radial	N0691689
3000 SCX/3x00 XL	Purge Window	Axial	09992731
3000/3000 SCR/3x00 RL /4300V/5300V/7300V	Purge Window	Radial	N0581497
4x00 DV/5x00 DV**	Purge Window	DV Radial	N0770322

^{**} Pre November 2004



Injectors



Alumina Injectors

Alumina injectors are corrosion-resistant to all mineral acids including HF and aqua regia. They are also used with less volatile organic solvents, e.g., xylene.

ICP Model	Dimensions	Part No.
Avio 200/500	0.80 mm ID	N0791180
Avio 200/500	1.2 mm ID	N0791181
Avio 200/500 (1.2 mm entire length of tube)	1.2 mm ID	N0791182
Avio 200/500 (standard with Avio instrument)	2.0 mm ID	N0791183
8x00	0.80 mm ID	N0781009
8x00	1.2 mm ID	N0781015
8x00 (1.2 mm entire length of tube)	1.2 mm ID	N0781007
8x00	2.0 mm ID	N0781014
2x00/4x00/5x00/7x00 DV	0.80 mm ID	N0775227
2x00/4x00/5x00/7x00 DV	1.2 mm ID	N0775228
2x00/4x00/5x00/7x00 DV (1.2 mm entire length of tube)	1.2 mm ID	N0776093
2x00/4x00/5x00/7x00 DV	2.0 mm ID	N0775177
4300V/5300V/7300V	1.2 mm ID	N0771531
3x00 XL/3x00 DV/3000 SCX /4300V/5300V/7300V	2.0 mm ID	N0695362

Sapphire Injectors

Sapphire injectors are ideal for silicon applications

ICP Model	Dimensions	Part No.
Avio 200/500	2.0 mm ID	N0791184
8x00	2.0 mm ID	N0781008
2x00/4x00/5x00/7x00 DV Sapphire in PFA base, (connects directly to ESI spray chambers)	1.8 mm ID	N0777044
2x00/4x00/5x00/7x00 DV	2.0 mm ID	N0775247
3000/3000 SCR/3x00 RL	2.0 mm ID	N0695495

Quartz Injectors

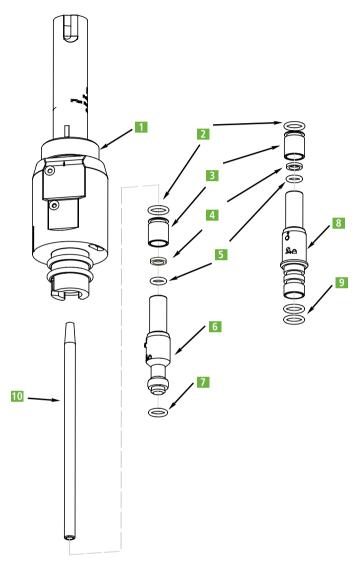
Quartz injectors are designed for organic solvents and non-HF matrices.

ICP Model	Dimensions	Part No.	
Avio 200/500	0.80 mm ID	N0791185	
Avio 200/500	1.2 mm ID	N0791186	
Avio 200/500	1.6 mm ID	N0791188	
Avio 200/500	2.0 mm ID	N0791189	
8x00	0.80 mm ID	N0781018	
8x00	1.2 mm ID	N0781019	
8x00	2.0 mm ID	N0781050	
2x00/4x00/5x00/7x00 DV	1.2 mm ID	N0775226	
4300V/5300V/7300V	1.2 mm ID	N0695460	
4300V/5300V/7300V	1.6 mm ID	N0695449	
4300V/5300V/7300V	2.0 mm ID	N0695442	

ESI Demountable Injectors

Dimensions	Туре	Part No.
For Optima 8x00		
1.5 mm	Sapphire	N0782004
1.8 mm	Sapphire	N0782005
1.8 mm with adapter for 7x00	Sapphire	N0782006
2.5 mm	Sapphire	N0786022
2 mm	Quartz	N0782009
For Optima 4x00, 5x00, 7x00		
1.8mm	Sapphire	N0777044

Avio Injector Assembly



	Description	Part No.
1	Knurled Nut	
2	O-Ring — Color Coded Blue	N0791333
3	Lock Collar	N0791163
4	Washer	
5	O-Ring	
6	Cyclonic Injector Adapter	N0790143
7	O-Ring	
8	Scott Injector Adapter	
9	O-Ring	09200518
10	Injector 2 mm Alumina	N0791183



Avio Injector Assembly Replacement Parts

Description	Part No.
Cyclonic Injector Assembly	N0790141
Scott Injector Assembly	N0790156
O-Ring Kit for Avio Scott Injector	N0790440
O-Ring Kit for Avio Cyclonic Injector	N0790441
O-Ring Kit for Avio Torch	N0790437
O-Ring Removal Tool	09220410

Injector Support Adapters and Replacement Parts

Injector Support Adapters

ICP Model	Spray Chamber	Part No.
Avio 200/500 Includes one of each: 09902207 , 09926070 , N0791333 , N0776014 , N0790143 , N0791163	Cyclonic	N0790141
Avio 200/500 Includes one of each: 09902207 , 09200518 , N0791333 , N0776014 , N0790154 , N0791163	Scott	N0790156
2x00/4x00/5x00/7x00 DV 8x00	All	N0770603
2x00/4x00/5x00/7x00 DV 8x00*	All	N0776091
4300V/5300V/7300V (top)	Cyclonic	N0771527

^{*}For 1.2 mm entire length injectors $\mathbf{N0776093}$ and $\mathbf{N0781007}$

Injector Support Adapter O-Ring Kits

ICP Model	Part No.
Avio 200/500 Cyclonic	N0790441
Avio 200/500 Scott	N0790440
2x00/4x00/5x00/7x00 DV/8x00	N0770438
3000/3000 SCR/3X00 RL	N0690269
3x00 XL/3x00 DV/3000 SCX	N0690769

Oil-Less Air Compressors

PerkinElmer is expanding its product portfolio to include an industrial grade quiet oil-less compressor with a 2 year manufacturer's warranty for a dependable, clean and dry air supply. Each compressor comes assembled on an internally and externally coated air tank carrying a 5 year manufacturer's warranty. Also included are an optional self-purging regenerative air dryer, aftercooler and 5 micron line filters assuring that the compressed air delivered to the instrument is of highest quality moisture and particle free. One version includes a silencing cabinet resulting in a compressor operating at a very guiet noise level of 55 dB/A. All models are equipped with ASME rated pressure tanks and safety valves, line pressure regulator, gauges and line ball valve for a complete turnkey compressor station.













Specifications		
Horse Power		1.5 HP
Output CFM/Output	L	6.0 CFM/170 L/min
Max Pressure PSI/M	ax Pressure Bar	120 PSI/8 bar
Noise Level		72 dB/A, with Enclosure 55 dB/A
Tank Size Gal./Tank	Size L	13 Gal./50 L
Dimensions	without Enclosure with Enclosure	25 in. x 18 in. x 29 in. 29 in. x 23 in. x 32 in.
Weight	without Enclosure with Enclosure	97 lbs. 207 lbs.
Packed Dimensions	without Enclosure with Enclosure	28 in. x 21 in. x 29 in. 33 in. x 28 in. x 39 in.

Compressors

Description	115 V/60 Hz Part No.	220 V/50 Hz Part No.	220 V/60 Hz Part No.
Air Compressor	N0777881	N0777882	N0777883
Air Compressor with Dryer	N0777602	N0777603	N0777604
Air Compressor with Dryer in Silencing Cabinet	N0777605	N0777606	N0777607

Product meets both U.S. and Canadian CSA standards. ASME® certified tank Please note: Silencing cabinet cannot be sold separately

Replacement parts

Description	Part No.
Replacement Air Intake Filter	N0777608
Micron Dryer Filter Element	N0777609

Inductively Coupled Plasma-MS

PerkinElmer offers a wide selection of superior quality products designed to work with your PerkinElmer instruments. Our precision designed products deliver the peace of mind that comes from knowing that you'll get the results you need.

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Nebulizers



PerkinElmer offers a complete selection of Nebulizers in a variety of materials for all of your application needs.

Choose from Concentric, MicroFlow and GemClean Nebulizers.



Spray Chambers

The spray chamber is an integral part of the sample introduction System. Each type of spray chamber has been tested to provide the best performance and analytical results.



Choose from Baffled Cyclonic, Scott Spray and PFA Spray Chambers.



Injectors



PerkinElmer offers a complete selection of Injectors in various sizes and materials to meet all of your application needs.

Choose from Quartz and Sapphire Injectors.



Torches

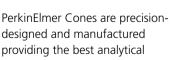


PerkinElmer carefully selects the best materials which provide optimal performance. Torches are specifically designed for your instrument. Trust the consumables engineered for your instruments.

Choose from Demountable Quartz, D-Torch, and Integrated Torch/Injectors.



Cones





results. Large-orifice sampler and skimmer cones provide superior long-term stability and resist clogging, allowing analysis under both high and low sample-uptake conditions.

Choose from Nickel and Platinum Cones.





PerkinElmer[®]

Science with Purpose

Concentric 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 and not to be used with solutions containing hydrofluoric acid. Nebulizers require an end cap (N0680504) for use with Scott Spray Chambers.

Туре	ICP-MS Model	Material	Uptake Rate	Part No.
Type K3	ELAN/NexION 300/350	Glass	3.0 mL/min	N0681574

Nebulizer Replacement Parts

	Description	Part No.
63	Nebulizer Clip for MEINHARD Nebulizers	N0777460

FAST Valve Connecting Lines

Description	Part No.
FAST Valve Connecting Line for ST-Nebulizer, 0.25 mm ID (Green) Attaches to port #3 of the FAST valve, 14 cm	N0777287
FAST Valve Connecting Line for ST-Nebulizer, 0.5 mm ID (Orange) Attaches to port #3 of the FAST valve, 14 cm	N0777288
FAST Valve Connecting Line for PerkinElmer Gem Cone Nebulizer, 0.50 mm ID (Orange)	N0777659
FAST Valve Connecting Line for MIRA MIST Nebulizer, 0.50 mm ID (Orange)	N0777658

MicroMist Nebulizers

The MicroMist micro-uptake glass concentric nebulizer offers high performance for limited sample volumes. MicroMists for ELAN/NexION 300/350 are fitted with a UniFit connector with 1.3 OD X 0.50 mm ID x 700 mm long sample tubing. MicroMists for NexION 1000/2000 Direct Connection (DC)



NexION 1000/2000 DC Nebulizer

Nebulizers are fitted with a UniFit connector and an Argon connector. All NexION 1000/2000 MicroMist Nebulizers include a Gas Fitting with ratchet connector (**N8151079**).

ICP-MS Model	Uptake Rate	Part No.
ELAN/NexION 300/350	0.2 mL/min	N0775342
ELAN/NexION 300/350	0.4 mL/min	N0775341

SeaSpray Nebulizers

The SeaSpray Concentric Nebulizer is ideal for samples with high dissolved solids and offers outstanding nebulization efficiency for trace level analysis. It offers freedom from clogging while nebulizing solutions near the limit of solubility of most mineral salts and conferring significant sensitivity gains. All SeaSpray Nebulizers are supplied with the EzyLok Argon connector. All NexION 1000/2000 SeaSpray Nebulizers are Direct Connection (DC) and include a Gas Fitting with ratchet connector (N8151079).

ICP-MS Model	Uptake Rate	Part No.
ELAN/NexION 300/350	1 mL/min Quartz	N0774069
ELAN/NexION 300/350	2 mL/min	N0775340





Direct Connection
Nebulizer Gas Fitting



Connectors for MicroMist and SeaSpray Nebulizers

Description	Pkg.	Part No.
Unifit		
0.50 mm ID x 1.27 mm OD x 700 mm Long	10	N0777513
0.75 mm ID x 1.27 mm OD x 700 mm Long	10	N0777512
1.30 mm OD x 0.75 mm ID x 700 mm Long	3	N0774077
1/16 in. OD x 0.75 mm ID x 700 mm Long	3	N0774080
UniFit-EzyFit Sample Tube	6	N0777061
EzyFit		
0.25 mm ID x 1/16 in. OD x 700 mm Long	10	N0777464
0.50 mm ID x 1/16 in. OD x 700 mm Long	10	N0777463
0.50 mm ID x 1/16 in. OD x 700 mm Long Twin	6	N0777462
UniFit-EzyFit Sample Tube	6	N0777061
Direct Connection Nebulizer Gas Fitting		
1/8 Gas Fitting with Ratchet Nebulizer Connector (DC)	1	N8151079

End Cap for Concentric Nebulizers

End cap to fit any concentric nebulizer onto a Scott Spray Chamber.



Description	Part No.
End Cap for Concentric Nebulizers	N0680504

High Efficiency MicroFlow Nebulizers

MicroFlow nebulizers are constructed entirely from chemically resistant fluoropolymers, ideal for strong acids, alkalis, organics, high salt solutions and high solid concentrations. They are resistant to clogging, are reliably self-aspirated or pumped and produce a fine aerosol for high transport efficiency and high sensitivity.



The PolyPro-ST Nebulizer is an HF resistant alternative to the PFA nebulizer. The PolyPro has lower chemical resistance than the PFA nebulizer but has the same high efficiency



aerosol generation. A robust nebulizer that can self aspirate with an exchangeable external sample uptake capillary or used with a peristaltic pump.

Description	Part No.
PolyPro-ST Nebulizer	N0777220

PFA Nebulizer Replacement Parts

Description	Part No.
Internal Standard Addition Tee for ST-Nebulizer, 0.25 mm ID (Green). Attaches to port #3, 14 cm	N0777294
Internal Standard Addition Tee for ST-Nebulizer, 0.5 mm ID (Orange). Attaches to port #3, 14 cm	N0777295



Carbon Fiber Supported Autosampler Probes for ST Nebulizers

Self-aspiration rate @ 1 L/m Ar

Description	Part No.
0.25 mm ID, Capillary Length 80 cm, Self-Aspiration Rate (@ 1 L/m Ar) 100 μL/min	N0777223
0.50 mm ID, Capillary Length 80 cm, Self-Aspiration Rate (@ 1 L/m Ar) 400 μL/min	N0777225
0.25 mm ID, Capillary Length 150 cm, Self-Aspiration Rate (@ 1 L/m Ar) 100 μL/min	N0777826
0.50 mm ID, Capillary Length 150 cm, Self-Aspiration Rate (@ 1 L/m Ar) 100 μL/min	N0777827
Reset Probe Weight Kit. PTFE coated Stainless Steel Weight with Black PEEK Retainer Assembly	N0786043

PTFE Autosampler Probes for ST Nebulizers

Description	Part No.
PTFE Sampling Probe Assembly with Carbon Fiber Support and Male Screw Fitting, 0.55 mm ID for AA/ICP/ICPMS. For ICP/ICPMS requires but does not include N8145018*. For AA with a stainless steel nebulizer, the male connect should be removed so that tubing can be directly connected to the nebulizer, no additional tubing is required	N2024132

^{*}Keep spare ferrules on hand, N8145237 Qty. 10



PFA MicroFlow Nebulizers with Integrated Autosampler Probes for NexION 300/350

Measured self-aspiration rate @ 1 L/m Ar

Description	Uptake Rate	Part No.
PFA-100 PFA (Carbon Fiber Support)	100 μL/min, length 100 cm	N0777216



GemClean Nebulizer

Cross-Flow Replacement GemTips and Spares

Includes a clear sapphire sample tip and a red ruby argon tip optimized for ICP-MS. Tips are constructed of PEEK for maximum corrosion resistance.

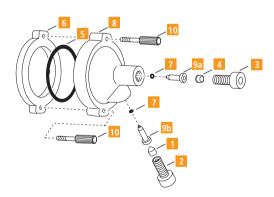


Description	Part No.
Cross-Flow II Nebulizer Argon Ferrule	09920515
Cross-Flow II Nebulizer Sample Ferrule	09920518
GemTip II O-Ring	09921045
End Cap O-Ring	09902033
Sample Tubing	09985708

^{*}Includes 09920515 and 09920518

GemClean Cross-Flow II Nebulizer Replacement Parts

	Description	Part No.
1	Sample Ferrule – TBG 1/16 Tefzel	09920518
2	Nut – TBG PEEK	09920516
3	Nut	09920517
4	Argon Ferrule – TBG 1/8 Tefzel	09920515
5	O-Ring, 18W, 1 3/8 ID, 1 5/8 OD	09902033
6	Ring	
7	O-Rings (2) 0.126 ID, 0.040 WD, Viton	09921045
8	End Cap Cross-Flow II Nebulizer	
9 9a 9b	GemTip Kit for Cross-Flow II Nebulizer (Contains one each: Argon and Sample tip) Red Ruby Nebulizer, Argon Tip Clear Nebulizer Sample Tip	
10	Screws (2) – Knurled	



Nebulizer Cleaners

The Eluo™ Nebulizer Cleaner



The Eluo is designated to efficiently deliver a cleanser through the nebulizer capillary to dislodge particle build-up and thoroughly clean the nebulizer.

Description	Part No.
For Newer OpalMist, PolyCon, DuraMist, MEINHARD, Other Glass Nebulizers	N0777712
For OLD Style OpalMist or PolyCon Nebulizers	N0775358

pergo Argon Humidifier

The *pergo* improves performance of all concentric nebulizers for the routine analysis of brines, fusion digests and other high-TDS samples. *pergo* 2 for ICP-MS humidifies both the nebulizer gas flow and the AMS gas flow for optimum performance.



ICP-MS Model	Description	Part No.
ELAN/NexION	pergo 1 without Nebulizer	N8145315
ELAN/NexION	<i>pergo</i> 1 with MEINHARD Type C Nebulizer	N8145316
ELAN/NexION	pergo 1 with PFA-ST Nebulizer	N8150427
ELAN/NexION	pergo 2 with MEINHARD Type C Plus Nebulizer	N8150428

Spray Chamber Replacement Parts



Description	Part No.
Helix Locking Screw	N0777438
Helix Seal Pkg. 4	N0777439

Scott Spray Chambers

Complete HF-resistant Scott Spray Chamber Includes (1) Large O-Ring (**WE013060**) and (1) Right-Angled Drain Connector (**WE013119**).

Description	Part No.
For ELAN 9000/6x00/5000/DRC-e/NexION 300/350	
Scott Spray Chamber	N8120124
Scott Spray Chamber Large O-Ring	WE013060
End-Cap for Concentric Nebulizer. Ryton Endcap to Fit Nebulizer onto Scott Spray Chamber	N0680504

PC³ Replacement Spray Chambers



ELAN Baffled Quartz Cyclonic PC³ Spray Chambers

Description	Part No.
With Auxiliary Gas Port	N0777034
Without Auxiliary Gas Port	N0777035

Temperature Controlled Spray Chambers



PC³ Peltier Coolers

The PC³ is a small and robust Peltier cooler for ICP-MS cyclonic spray chambers. The cyclonic spray chamber offers the advantages of low memory effects, fast rinseout and high sample transport efficiency. The PC³ cools the outer walls of the cyclonic spray chamber to a constant temperature, enhancing long-term signal stability, reducing polyatomic interferences such as oxides and reducing solvent loading when volatile organic solvents are analyzed. The PC³ has 2 preset temperatures +2 °C / -5 °C and is ideal for analysis of aqueous or aqueous/organic mixtures. The PC³-LT operates at -20 °C to reduce the solvent load on the plasma for analysis of 100% volatile organic solvents.

				A 1.00
Description	Injector Size	Temperature	Additional Gas Port	Part No.
NexION 300/350				
PC ³ Sample Introduction Kit*	1.5 mm	+2 °C / -5 °C	Yes	N8142003
PC ³ Sample Introduction Kit with Quartz SSI Cyclonic/ Scott Dual Spray Chamber	1.5 mm	+2 °C / -5 °C	No	N8145314
PC ³ -LT Organic Sample Introduction Kit*	1.0 mm	+2 °C / -20 °C	Yes	N8145099

^{*} All PC³ kits include a PFA-ST nebulizer (N8122192)





PC^{3x} Peltier Controlled Heated or Cooled Thermally Stabilized Inlet Systems

The PC^{3x} is a compact Peltier heated or cooled inlet system that controls the spray chamber temperature and improves long-term stability. In cooling mode, water or solvent is removed from the aerosol, reducing water or solvent loading on the plasma. In heating mode, sensitivity is increased and volatility-related sample transport effects can be reduced or eliminated.

- Variable temperature control from -10 °C to +80 °C
- Thermal stabilization of spray chamber improves long-term stability
- USB or Bluetooth connectivity
- · Remote monitoring and control

ICP-MS Model	Spray Chamber	Part No.
NexION 1000/2000	Not included	N8152382
NexION 300/350	Quartz	N8145340
NexION 300/350	Quartz	N8145446

PC3x Thermally Stabilized Inlet System

The PC^{3X} for the High Performance PFA spray chamber is a compact, Peltierheated or cooled inlet system that offers the advantages of low memory effects, constant temperature, rapid wash-out and high sample transport efficiency. In cooling mode the PC^{3X} cools the outer walls of the chamber, reducing the water or solvent vapor loading on the plasma, achieving enh



vapor loading on the plasma, achieving enhanced stability and performance. In heating mode, sensitivity can be improved for low-flow applications. Includes spray chamber and nebulizer.

ICP-MS Model	Description	Part No.
NexION 1000/2000	Includes PFA Nebulizer and Spray Chamber	N8150446
NexION 1000/2000	Includes PFA Spray Chamber	N8150445

See next page for more
Temperature Controlled Spray Chambers

Temperature Controlled Spray Chambers

PC³ Peltier Coolers

The PC³ is a small and robust Peltier cooler for ICP-MS cyclonic spray chambers. The cyclonic spray chamber offers the advantages of low memory effects, fast rinseout and high sample transport efficiency. The PC³ cools the outer walls of the cyclonic spray chamber to a constant temperature,



enhancing long-term signal stability, reducing polyatomic interferences such as oxides and reducing solvent loading when volatile organic solvents are analyzed. The PC³ has two present temperatures +2 °C / -5 °C

and is ideal for analysis of aqueous or aqueous/organic mixtures. The PC^3 -LT operates at +2 °C /-20 °C to reduce the solvent load on the plasma for analysis of 100% volatile organic solvents.

ICP-MS Model	Description	Part No.
ELAN	Cassette Torch Mount	N8122410

IsoMist Temperature Controlled Spray Chambers

The IsoMist Programmable
Temperature Controlled Spray
Chamber provides the benefits
of a temperature-controlled ICP
sample introduction system in a
compact, convenient package.
The temperature is electronically



controlled using a powerful inbuilt Peltier device. The rapid response of the Peltier device allows a spray chamber temperature of -5°C to be reached within 15 minutes.

The IsoMist XR programmable temperature controlled cyclonic spray chamber now features an improved thermodynamic design providing an extended temperature range and faster cool-down, so your ICP is ready to go sooner. IsoMist XR has a peltier unit with a range of -25°C to +80°C.

ICP-MS Model	Description	Part No.
NexION 300/350	IsoMist XR Glass	N8140747
NexION 300/350	IsoMist XR PFA	N8140748
NexION 300/350	IsoMist XR Quartz	N8140749

Injectors

Part No. **N0695495**

Sapphire Injector

Demountable injector for use with the HF-resistant sample introduction system. Not for use with PFA sample introduction system.

ICP-MS Model	Dimensions	Part No.
ELAN/NexION 300/350	2.0 mm	N0695495

Injector Assemblies and Support Adapters

Injector Support Adapter O-Rings

Position	Torch Type	Part No.
Internal	Cassette (Non-Ball Joint Only)	N8122010

Load Coils

RF Load Coil Assemblies



ICP-MS Model	Part No.
ELAN 5000	WE012411

D-Torch Demountable Torch

The D-Torch™ provides a demountable torch design without sacrificing performance or usability. Featuring a torch body with fixed alumina intermediate tube for greater robustness, in addition to a demountable outer tube and injector, the D-Torch significantly reduces torch replacement costs for the analysis of challenging sample matrices.

Description	Part No.
For ELAN/NexION 300/350	
Retaining Ring	N0777055

Torch Alignment Tool



Used to align the torch in the load coil.

ICP-MS Model	Part No.
ELAN 9000/6x00/DRCs/NexION 300/350	WE015554



Cassette Torch Mount

ICP-MS Model	Part No.
ELAN DRC II	W1020672
ELAN 9000/DRC-e	W1020668

Does not include Demountable Quartz Torch or Injector.

Mass Spectrometer Hardware

Detector Electronics Upgrade Kit

Boosts detector life at least 20%.

ICP-MS Model	Part No.
ELAN 9000/6x00/DRCs* Manufactured Prior to April, 2005	W1013195

^{*} Service installation is required, but not included.

Ion Optics

PerkinElmer offers the industry's only single-ion lens with the exclusive SwiftMount™ II cassette lens mount. No tools are required as the design incorporates a clean capture-and-release concept.

Ion Lens

Description	ICP-MS Model	Part No.
Cassette Ion Lens Upgrade Kit	ELANs Manufactured Before April, 2005	W1017871
Series II Lens Removal Tool	ELAN 9000/6x00/DRCs Manufactured Between January,1998 and April, 2005	W1010620

Cones and Accessories



Cone Removal Tool

ICP-MS Model	Part No.
ELAN 9000/6x00/DRC	WE017142

NexION Consumables



NexION 300/350Q/350S/X/D Consumables

Description	Qty.	Part No.
Santoprene® 1.30 mm Gray/Gray Pump Tubing	4	N0777444
Flared PVC 0.38 mm Green/Orange Pump Tubing	4	N0777042

ELAN Consumables



Glass Cyclonic Sample Introduction Consumables for **ELAN**

Description	Part No.
Baffled Glass Cyclonic Spray Chamber O-Ring Free	N0775352
MicroMist Micro-uptake Glass Concentric Nebulizer 0.2 mL/min	N0775342
Tube Fitting	09903465
Red/Red Standard PVC Tubing 1.14 mm ID (Pkg. 12)	09908585
Green/Yellow Flared End PVC Tubing 0.44 mm ID (Pkg. 12)	N0773113

Quartz Cyclonic Sample Introduction Consumables for **ELAN**

Description	Part No.
MicroMist Micro-Uptake Glass Concentric Nebulizer 0.2 mL/min	N0775342
Tube Fitting	09903465
Red/Red Standard PVC Tubing 1.14 mm ID (Pkg. 12)	09908585
Green/Yellow Flared End PVC Tubing 0.44 mm ID (Pkg. 12)	N0773113
UV Safety Shield	W1020996
Connector 1A	B0199233

Atomic Spectroscopy General Supplies

PerkinElmer offers a wide selection of superior quality products designed to work with your PerkinElmer instruments. Our precision designed products deliver the peace of mind that comes from knowing that you'll get the results you need.

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Chillers

PerkinElmer offers a PolyScience®
WhisperCool™ Recirculating Chiller for
your ICP-OES and ICP-MS instruments. The
WhisperCool Chiller is designed to deliver
quiet and reliable performance over a broad
range of operating temperatures and conditions.





Power Conditioners and UPS Systems

Powervar power quality solutions combine specific technologies that ensure sensitive analytical equipment will operate optimally on a day to day basis and for the long run. Power disturbances can result in quality issues undermining instrument performance and user confidence.





Peristaltic Pump Tubing

PerkinElmer offers a wide range of high-quality peristaltic pump tubing for all of your AA, ICP-OES and ICP-MS applications.



Remember to replace your tubing frequently and always keep spares on hand.



Autosampler Supplies

PerkinElmer offers a wide variety of Autosampler Racks, Probes and Tubes for your PerkinElmer, Cetac and ESI Autosamplers.





Benches and Accessory Carts

PerkinElmer offers custom Benches and Accessory carts for your instrumentation and accessories.







Cooling Systems

PolyScience® WhisperCool™ Refrigerated Chiller

The PolyScience® WhisperCool® Refrigerated Chiller is designed to deliver quiet and reliable performance over a broad range of operating temperatures and conditions. Extremely dependable and energy efficient, it features a -10 to 40 °C operating temperature range, built-in process and equipment protection and highly intuitive user interface. This chiller is designed for use on both ICP-OES and ICP-MS instruments.

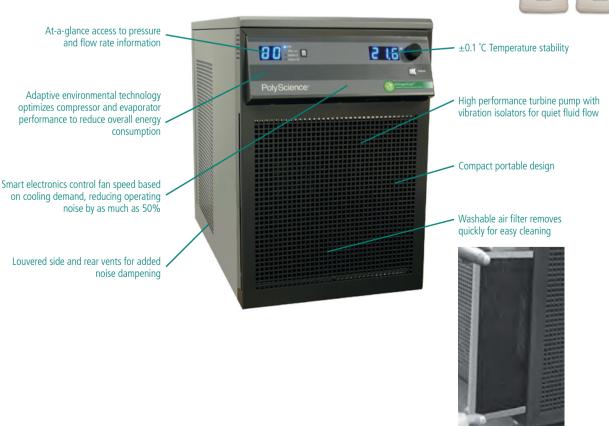
Features and Benefits

- 50% guieter operation than comparable models (62 dB*)
- 2900 watts (9889 BTU/hour) cooling capacity
- Built-in temperature, pressure and flow rate alarms
- * WhisperCool® environmental control reduces operational noise (62 dB)

Part No.		N0772046	N0772045	
Electrical Requirements		208-230 V, 60 Hz, 12.2 A	240 V, 50 Hz, 12.2 A	
Operating Temperature Range		-10 to 40 °C	-10 to 40 °C	
Temperature Stability		±0.1 °C (±1.8 °F)	±0.1 °C (±1.8 °F)	
Cooling Capacity	at 20 °C at 10 °C at 0 °C	2900 Watts (9889 BTU/hr) 1925 Watts (6574 BTU/hr) 1000 Watts (3410 BTU/hr)	2650 Watts (9889 BTU/hr) 1900 Watts (6574 BTU/hr) 1200 Watts (3410 BTU/hr)	
Compressor		1.0 HP	1.0 HP	
Reservoir Capacity		4.2 L	4.2 L	
Pump Type		Turbine	Turbine	
Maximum Pump Pressure		90 PSI	83 PSI	
Maximum Pump Flow		13.2 L/min	13.2 L/min	
Dimensions		22 5/8 x 14 1/2 x 27 5/8 in. / 57.6 x 36.8 x 70.2 cm		
Shipping Weight		189 lbs. / 85.7 kg		
Replacement Air Filter		N0777095 (Air Filter with Frame, 13 x 14 in.)		
ICP Chiller Coolant Mix		N0776200 (Five Half-gallon bottles)		

ICP Chiller Coolant Mix Part No: **N0776200**





Noise Enclosures for Vacuum Pumps and Chillers

Laboratories can be loud and noise in labs is distracting, stressful and potentially harmful to your hearing. While noise in labs may not be frequently talked about, it is something you should be concerned with.

Our noise reduction enclosures are designed specifically for your instrument. They provide noise reduction performance from -12 db(A) up to -20 db(A), equivalent to a 75% reduction in noise perception! Thick 50 mm Polyurethane acoustic open cell foam covers the interior part of the enclosure, delivering good noise absorption. The wave shape of the foam multiplies the absorption capacity, providing you with a quieter, safer lab.



Chiller noise in the lab can be distracting, tiring, irritating and stressful. But many people are unaware of the presence of environmental sound at damaging levels, or at the level on which sound becomes harmful.

Chiller Noise Enclosure Features and Benefits

- Performance: average sound level decrease is 15 dB(A) (equivalent to a 75% reduction in noise perception)
- Environment friendly noise adsorbing material, oil and water resistant
- Heat exchange controlled by six internal silent fans
- Worldwide electrical compatibility-enclosures are delivered with European, US, Japan and UK plugs
- Easy access to front monitor and switch (the transparent window can be opened)
- Easy water level check (window on the back panel)
- Includes overheating temperature alarm
- The noise reduction is in conformity with the European directive related to low voltage equipment (2006/95/EC) and electromagnetic compatibility (2004/108/EC)

Chiller Noise Enclosure For Polyscience 6000 Series

External Dimensions	Centimeters (cm)	Inches (in.)
Depth	88	34.7
Width	57	23.7
Height	71	30.7

Description	Part No.
Chiller Enclosure	N0777920





Power Conditioners and UPS Systems

PerkinElmer/Powervar power quality solutions combine specific technologies that ensure sensitive analytical equipment will operate optimally on a day to day basis and for the long run. Power disturbances can result in quality issues undermining instrument performance and user confidence. Damaged or compromised components, disrupted processes, lack of reliability – they all add up to frustration, broken schedules and costly downtime. The problem is caused by a host of power disturbances – some visible and many invisible – that threaten your equipment's operation every year. Power 'disturbances' are simply those large and small variations in the quality of the electric power you use day in and day out. Some come from your local utility company, but most are created within your own facility as a result of the distribution and use of electrical power. These variations include high-energy voltage transients, sags and swells, electrical noise and common mode voltage, as well as the power outages everyone witnesses when the lights go out.

Power Conditioners

Features and Benefits

- Conditioners provide clean power at 120, 208, or 240 VAC for loads up to 62 amps
- Dual-output models can protect both high-voltage system loads and low-voltage peripherals at less expense and effort than installing two conditioners
- Protects against: high-voltage surges, common-mode voltage, electrical noise, voltage swells and sags, power outages, unstable AC frequency, ground loops



Instrument Model	Description	Input Voltage	Frequency (Hz)	Part No.
Atomic Absorption				
AAnalyst 100/200/300/400	520 VA	120 V	60	N9307504
PinAAcle 500/900 F	840 VA	120 V	60	N9307517
AAnalyst 100/200/300/400, PinAAcle 500/900 F	750 VA	220/230 V	50	N9307521
AAnalyst 600/800	5.8 kVA	208/240 V	60	N9307511
AAnalyst 600/800	6.0 kVA	220/230 V	50	N9307523
AAnalyst 700	3.8 kVA	208/240 V	60	N9307509
AAnalyst 700	3.6 kVA	220/230 V	50	N9307522
PinAAcle 900 H/T/Z	5.8 kVA	208/240 V	60	N9307760
PinAAcle 900 H/T/Z	6.0 kVA	220/230 V	50	N9307523
PinAAcle 500/900 F	1440 VA	120 V	60	N9307503
PinAAcle 500/900 F	1500 VA	220/230 V	50	N9306752
Inductively Coupled Plasma-OES				
Optima™ 2x00/4x00/5x00/7x00/8x00, Avio 200/500	3.8 kVA	208/240 V	60	N9307512
Optima 2x00/4x00/5x00/7x00/8x00, Avio 200/500	3.6 kVA	220/230 V	50	N9307522
Inductively Coupled Plasma-MS				
ELAN® 6x00/9000 Controller Side	3.8 kVA	208/240 V	60	N9307519
ELAN 6x00/9000 Controller Side	3.6 kVA	220/230 V	50	N9307522
ELAN 6x00/9000 RF Generator Side	5.8 kVA	208/240 V	60	N9307511
ELAN 6x00/9000, NexION® RF Generator Side	6.0 kVA	220/230 V	50	N9307523
NexION 300/350/1000/2000	5.0 kVA	208/240 V	60	N0777690

Power Conditioners include a POWERVAR five-year warranty on parts and labor.

UPS Systems

On-Line Conditioned Uninterruptable Power Supply Systems

With the Security Plus Series, you get much more protection and a higher comfort level than you get with most other UPS systems. The Security Plus Series also provides complete power conditioning and, because the Security Plus Series features on-line inverter design, added peace of mind. And regardless of input fluctuations, the Security Plus Series insures that the output remains continuous and regulated.







Instrument Model	Description	Input Voltage	Frequency (Hz)	Part No.
Atomic Absorption PinAAcle 500	1440 VA	120 V	60	N9306750
PinAAcle 900F, AAnalyst 100/200/300/400	800 VA	120 V	60	N0777681
PinAAcle 900F,AAnalyst 100/200/300/400	800 VA	220/230 V	50	N0777689

UPS Systems include a POWERVAR three-year warranty (two-year on batteries) on parts and labor.

Laboratory Products

Acetylene Regulator

For AA labs, this regulator includes an adapter so that the pressure regulator can be connected to cylinders requiring either CGA 300 or CGA 510 fittings and a connector for attaching the fuel hose assembly supplied with the instrument. Includes hose assembly.



Description	Part No.
Max Inlet Pressure: 400 psig	03030106

Hose Assemblies

Hose assemblies for connecting fuel, air and nitrous oxide from supply to instrument.



Description	Part No.
Acetylene, Red Neoprene, 3.7 m (12 ft.)	00570559
Air/Argon, Black, 3.7 m (12 ft.)	00570567
Nitrous Oxide, Blue, 3.7 m (12 ft.)	00470258

Air Regulator

For AA labs. Regulator to cylinder CGA no. 590. Includes hose assembly.



Description	Part No.
Max Inlet Pressure: 3,000 psig	03030264

Blower and Vent Assembly for AA and ICP

A venting system is required to remove fumes and vapors from the torch of ICP emission spectrometers. A vent is recommended for use over the power supply unit of most ICP spectrometers for removal of dissipated heat.

Nitrous Oxide Regulator

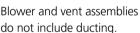
For use in AA labs with gas cylinders with a CGA 326 connection. Provides pressure control from 350-520 kPA (50-75 psig) and contains an integral thermostatted heater to prevent freezing of the regulator diaphragm.

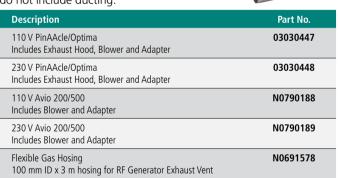


Description	Part No.
115 V	03030204
220 V	03030349

Use exhaust venting to:

- Protect lab personnel from toxic vapors
- Protect your instrument from corrosive vapors
- Improve stability of the ICP torch





PerkinElmer service engineers are not permitted to install this unit

Argon/Nitrogen Regulator

For AA and ICP, this regulator can be used with argon or nitrogen and has a CGA 580 fitting. A color-coded hose with 1/4 in.

SWAGELOK® fittings is also included.



Description	Part No.
Max Inlet Pressure: 3,000 psig	03030284

ATOMIC SPECTROSCOPY GENERAL SUPPLIES

Parker Balston® Replacement Filters

Description	Cartridges Part No.	Seal Sets Part No.
1st Air Filter	N9301710	N9301712
2nd Air Filter	N9301711	N9301712
Acetylene Filter	N9301714	N9301715

Balston® 95A Acetylene Filter

For your AA lab, this filter includes a Balston Grade BQ filter cartridge to remove trace amounts of liquid and solid contaminants from the acetylene supply to 99.99% at 0.01 micron. Max working pressure: 15 psig.



Warning, this filter will not protect an instrument from acetylene tanks that have been overfilled with acetone, or from standard sized tanks that are below 85 psi.

Description	Part No.
Replacement Acetylene Filter Cartridge	N9301714

Balston® Air Filter Assembly Type A-82

For AA and ICP labs, this filter is specifically designed to remove water, oil and dirt particles down to 0.6 microns in diameter from compressed air lines. It is recommended for use with oil-type compressors and for removing moisture and dirt particles from air supplied by oil-less compressors. Also recommended to filter argon for the PinAAcle furnace.



Description	Part No.
Air Filter Assembly	N0580531
Replacement Filter Cartridge Element	N0582251

Air Dryer Filter Assembly with R250 Regulator

To filter compressed air for AA and ICP instrumentation.



Description	Part No.
Replacement Filter Element	N9306067
Float Assembly	N0777710
Bowl O-Ring	N0777328

Wilkerson® Air Dryer Filter Accessories*

Description	Pre-Filter Part No.	Final Filter Part No.
Filter Elements	09923464	09907120
Bowl O-Ring Kit, Final Filter	N9302197	N9301715

^{*} For Wilkerson Filter PerkinElmer (00470652)

ICP Filter Replacement Parts

ICP Model	Filter Element	Final Filter Part No.
2x00/3x00/4x00/5x00/7x00/8x00	Air Filter in Front of Spectrometer Fan	09995098
2x00/3x00/4x00	Water Filter	09904845
2x00/3x00/4x00	Cartridge for Water Filter	09904846
2x00/4x00/5x00/7x00/8x00	Air Filter for the RF Generator Inlet	N0775220
3x00	Washable Air Filter for the RF Generator Inlet	02509115
3x00	Disposable Air Filter for the RF Generator Inlet	09923517

Instrument Filters

Description	Part No.
For AAnalyst 600/700/800 (80x80)	B0502706
For Optima 2x00/3x00/4x00/5x00/7x00/8x00 Avio 200/500	09995098

Polyscience Replacement Air Filters

Description	Part No.
Polyscience Air Filter with Frame	N0777095





Peristaltic Pump Tubing

PerkinElmer offers a wide range of high-quality peristaltic pump tubing for all of your AA, ICP-OES and ICP-MS applications. Remember to replace your tubing frequently and always keep spares on hand.

Two-Stop Peristaltic Pump Tubing for Optima, Avio and NexION 300/350

ID (mm)	Stop Colors	Standard PVC (Pkg. 12)	Flared PVC (Pkg. 12)	Solvent Flex (Pkg. 12)	Viton® (Pkg .12)	Santoprene® (Pkg. 12)	Silicone (Pkg. 6)
0.19	orange red	N0695476	N0773111				
0.25	orange blue	N0773117	N0773112				
0.38	orange green	N0777110	N0777042	N0777874			
0.44	green yellow		N0773113				
0.51	orange yellow		N0777476				
0.64	orange white		N0777711				
0.76	black black	09908587	N0777043	00473550	N0773118		00473552
1.14	red red	09908585		09923037	N0773115	N0773119	N0691595
1.3	gray gray					N0777444	N0777443
1.42	yellow yellow	N0777521					
1.52	yellow blue	09923536					
1.65	blue blue				N0777447		
1.85	green green	N0777518					
2.06	purple purple	N0777561					
3.18	black white	N8122012					

Three-Stop Peristaltic Pump Tubing for FIAS, FIMS and S10

ID (mm)		Stop Colors		Standard PVC Clear (Pkg. 12)	Pharmed Tan (Pkg. 12)	Solvent Resistant Yellow (Pkg. 12)
1.65	black	black	black	B0506058	N0773111	
1.75	white	white	white			B0507692
1.85	red	red	red	B0193160	*B3140730 (Pkg. 6)	
2.06	yellow	blue	yellow	B0193161		
2.2	purple	purple	purple	B0199034		
2.79	black	white	black	B0508310		



MP² Two-Stop Peristaltic Pump Tubing

ID (mm)	Stop Colors	Slope (L/min per RPM)	Non-Flared Santoprene 2-Stop	Flared PVC 2-Stop
1.09	white red	33		N8145206
3.17	black white	70	N8145175	

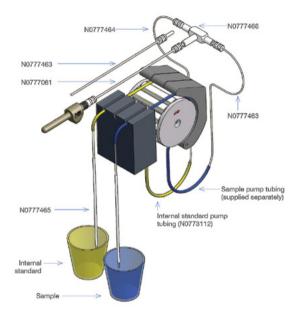
^{*} Used for S10 and AS9X autosamplers

Internal Standard Kits

In-line Standard Additions kits, one which includes a glass mixing chamber/combiner for solutions which do not contain HF and another which includes an inert mixing chamber/combiner. Both kits are completely modular so that damaged or worn components can easily be replaced. The heart of the kit is the mixing chamber/combiner. It is designed for zero dead volume on the input ends which accommodate the sample and addition lines. The output end is designed with a small mixing chamber so that the sample and added reagent are intimately mixed prior to introduction to the nebulizer. All connections to the mixing chamber/combiner use EzyFit connectors. A sampling probe for the reagent addition bottle is included so that it remains well anchored in the bottle. In-line addition of internal standards and ionization buffers provides an efficient means of accurately and precisely dosing all of your samples without extra effort or the risk of error or contamination. Internal standardization is often used to compensate for physical and mass-space interferences in ICP spectrometry. In many cases, it also enhances short-term and long-term reproducibility.

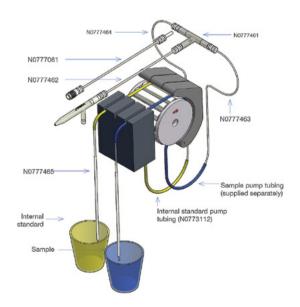
HF-Resistant Internal Standard Kit

Description	Part No.
HF-Resistant Internal Standard Kit Includes:	N0774067
HF Mixing T-Piece	N0777466
Internal Standard Sample Probe 0.25 mm ID	N0777465
EzyFit Sample Tube 0.5 mm ID	N0777463
UniFit-EzyFit Sample Tube	N0777061
EzyFit Internal Standard Tube 0.25 mm ID	N0777464
Orange/Blue Flared End PVC Tubing 0.25 mm ID — Qty. 12	N0773112



Non HF-Resistant Internal Standard Kit

Description	Part No.
Non HF-Resistant Internal Standard Kit Kit Includes:	N0774068
EzyFit Glass Mixing T-piece	N0777461
Internal Standard Sample Probe 0.25 mm ID	N0777465
EzyFit Sample Tube — Twin	N0777462
EzyFit Sample Tube 0.5 mm ID	N0777463
EzyFit Internal Standard Tube 0.25 mm ID	N0777464
Orange/Blue Flared End PVC Tubing 0.25 mm ID — Qty. 12	N0773112
UniFit-EzyFit Sample Tube	N0777061



Internal Standard Addition Tees

NexION 1000/2000 internal standard mixing tee is perfect for online addition of internal standard or online dilution. Achieves excellent mixing with minimal dead volume.

Fittings

Description	Qty.	Part No.
Black, High-Flow Nut (1/4-28) for <i>FAST</i> Valve and 1/16 in. (1.6 mm) Ferrule	10	N0777283
White, High-Flow Nut (1/4-28) for <i>FAST</i> Valve and 1/8 in. (3.2 mm) Ferrule	10	N0777297
Female Perilink Fitting	5	N0786030
Male Perilink Fitting	5	N0786036
Non-Barbed for Low Pressure Applications (Female)	1	N0777829
Non-Barbed for High Pressure Applications (Male)	1	N0777830

PerkinElmer Autosampler Supplies



PerkinElmer AS-9x/S10 Sampling Probe Assemblies

Stainless Steel

Description	Part No.
Flame Sampling Probe Assembly, 0.6 mm ID Includes Stainless Steel Sampling Probe and Screw Fitting (B3000152) and Flame Capillary (B3000157 – Replaces B0196963) Tubing Assembly	B3000159
FIAS [™] Sampling Probe Assembly, 0.6 mm ID Includes Stainless Steel Sampling Probe and Screw Fitting (B3000152) and FIAS Capillary Tubing Assembly (B3000158 – Replaces B0196966)	B3000160
FIAS Standard Sampling Probe Assembly, 1.0 mm ID Includes Stainless Steel Sampling Probe and Screw Fitting (B3000152) and FIAS Capillary Tubing Assembly (B0191060 – Replaces B0501044)	B3000161

Corrosion-Resistant

Corrosion-resistant probes are suitable for inorganic acids and most organic solvents, except NMP.

Description	Part No.
Flame Sampling Probe Assembly, 0.6 mm ID* Includes Sampling Probe with FEP Tube and Screw Fitting (B300055) and Capillary Tubing Assembly (B3000157). Standard with AS93plus/S10	B3001770
FIAS Sampling Probe Assembly, 0.6 mm ID* Includes Sampling Probe with FEP Tube and Screw Fitting (B3000055) and FIAS Capillary Tubing Assembly (B3000158)	B3001771
FIAS Standard Sampling Probe Assembly, 1.0 mm ID* Includes Sampling Probe with FEP Tube and Screw Fitting (B3001769) and Capillary Tubing Assembly (B0191060)	B3001772

^{*}This probe cannot be used with AS-90s, with the older sampling probe holder

PTFE

PTFE probes provide laminar flow and are the most resistant to chemical degradation.

Description	Part No.
PTFE Sampling Probe Assembly with Carbon Fiber Support and Male Screw Fitting, 0.55 mm ID for AA/ICP/ICPMS. For ICP/ICPMS requires but does not include N8145018 *. For AA with a stainless steel nebulizer, the male connect should be removed so that tubing can be directly connected to the nebulizer, no additional tubing is required	N2024132
PTFE Flame Sampling Probe Assembly and Male Screw Fitting, 0.8 mm ID for AA. Requires but does not include B0172053 *	N0777434
PTFE Flame Sampling Probe Assembly with Carbon Fiber Support and Male Screw Fitting, 1.0 mm ID for FIAS*	N2024131

^{*}Keep spare ferrules on hand, N8145237 Qty. 10



Part No. **B3000152**

Sampling Probe Assembly Components

Description	Part No.
Stainless Steel Sampling Probe with Screw Fitting Requires, but does not include, one of the capillary tubing assemblies described below:	B3000152
Flame Capillary Tubing Assembly 1 m Length, 0.6 mm ID, One Fitting (Red)	B3000157
FIAS Capillary Tubing Assembly 1 m Length, 0.6 mm ID, Two Fittings (Red)	B3000158
FIAS Capillary Tubing Assembly 1 m Length, 1.0 mm ID, Two Fittings (Blue)	B0191060
Corrosion-Resistant Probe only 0.6 mm	B3000055
Corrosion-Resistant Probe only 1.0 mm	B3001769







PerkinElmer Autosampler Supplies

PerkinElmer AS-93plus/S10 Sample Racks

Description/Capacity	Sample Vessel Size	Part No.
Tray F — 9/29*1	50 mL/15 mL	B3001647
Tray E — 90 ²	4.5 mL, 6 mL, 8 mL	B3140617
Tray H and Tray F – 60 ³	15 mL, 16 mL	B3140618
Tray E, H and Tray G — 21 ⁴	50 mL	B3140621

^{*} AS-93plus/S10 sample trays are polypropylene.

¹Rack **B3001647** (rinsing-port rack) with rinsing port location (location 0), 8 locations for 50 mL solution containers (calibration and/or test sample solutions) and 29 locations for 15 mL solution containers (test sample solutions)

² Rack **B3140617** each with 90 locations for 6 mL and 8 mL solution containers (test sample solutions)

³ Rack B3140618 with 60 locations for 15 mL solution containers (test sample solutions)

⁴Rack **B3140621** with 21 locations each for 50 mL solution containers (calibration and/or test sample solutions). Location 0 in the first rack is for the rinsing port

PerkinElmer AS-90/90A/90plus Sample Racks

Description/Capacity	Sample Vessel Size	Part No.
Tray A — 144	4.5 mL, 6 mL, 8 mL	B3000133
Tray B — 98*	15 mL, 16 mL	B3000132

^{*}Polypropylene sample tray

PerkinElmer AS-93plus/S10 Rinsing Kit

Description/Capacity	Part No.
AS-93plus/S10 Rinsing Kit	B3140236
Spare Parts	
Rinsing Port	B3140622
Adapter M	B0507919
Pump Tube — 1.14 mm ID (Pkg. 6)	B3140730
Tygon® Drain Tube — 2 m Red/Red/Red	B0018283

Cetac Autosampler Supplies

Cetac Carbon Fiber Autosampler Probes

Description	Part No.
0.5 mm Blue 0.5 mm ID x 108 in. – PTFE	N0777547
1.0 mm 2 Blue 1.0 mm ID x 75 in. – PTFE	N0777568



Cetac Ultem Autosampler Probes

Description	Part No.
1.0 mm 2 Blue 1.0 mm ID x 75 in. – PTFE	N0777565



Cetac Stainless Steel Autosampler Probe

Description	Part No.
Steel Probe with Screen Tip (100 mesh) Designed for Oil Analysis	N0771529

Cetac Autosampler Racks

Rack	Vial Size	Part No.
80-Position, Collection Metal for Oil	15 mL	N0774085
90-Position, 13.5 mm Square Opening	7 mL or 8 mL	N0777148
96-Position, 13 mm Collection Metal for Oil	15 mL	N0777368





ESI Autosampler Supplies



ESI Autosampler Racks and Rack Covers



Part No. **N8145131**

ESI Autosampler Probes

Description	Part No.
Carbon Fiber Autosampler Probes for ST Nebulizers	
Autosampler Probe, 0.15 mm, Capillary Length 80 cm	N0777221
Autosampler Probe, 0.2 mm, Capillary Length 80 cm	N0777222
Autosampler Probe, 0.25 mm, Capillary Length 80 cm	N0777223
Autosampler Probe, 0.25 mm, Capillary Length 150 cm	N0777826
Autosampler Probe, 0.3 mm, Capillary Length 80 cm	N0777224
Autosampler Probe, 0.5 mm, Capillary Length 80 cm	N0777225
Autosampler Probe, 0.5 mm, Capillary Length 150 cm	N0777827
Autosampler Probe, 0.8 mm, Capillary Length 80 cm	N0777226
Sample Probes	
High Flow, Carbon Fiber Support, 0.8 mm ID (Blue)	N0777285
Sample Probe Line Holder	N0777227
Carrier Probes	
High Flow, Carbon Fiber Support, 0.5 mm ID (Orange)	N0777286

Additional ESI Autosampler Probes

Description	Part No.
PFA <i>FAST</i> Sample Probe for High-flow <i>FAST</i> Valve, 1.0 mm ID (Gray), 150 cm	N0777522
PFA FAST Sample Probe for High-flow FAST Valve, 0.8 mm ID (Blue), 150 cm	N0777523
PFA <i>FAST</i> Carrier / Probe <i>FAST</i> Valve, 0.5 mm ID (Orange), 150 cm	N0777286

PFA MicroFlow Nebulizers with Integrated Autosampler Probes (carbon fiber support)

ICP Model	Description	Part No.
Optima/Avio/NexION 350	PFA-100 PFA, Capillary Length 100 cm	N0777216

Description	Size	Diameter	Part No.
Standard Racks			
5-Position Priority Samples Rack for 8 mL, 15 mL, 50 mL, 125 mL and 250 mL Bottles. Fits over DX Rinse Station		60 mm	N8145317
7-Position for 250 mL Bottles. For 4DX Autosampler only		60 mm	N8122464
9-Position for 125 mL Bottles. Recommended for prep <i>FAST</i> . For 4DX Autosampler only		50 mm	N0777771
9-Position for 125 mL Bottles. Recommended for prep <i>FAST</i> . For 2DX Autosampler only		50 mm	N0777772
10-Position Standards Rack for 20 mL and 50 mL Tubes		28 mm	N0777228
10-Position for 30 mL and 60 mL Tubes		31 mm	N8145131
Micro Racks			
10-Position Micro Sample Rack for 15 mL and 30 mL Tubes		30 mm	N8122463
40-Position	4 x 10	14 mm	N0777230
Large Racks			
21-Position for 50 mL and 60 mL Tubes	3 x 7	30 mm	N0777242
40-Position	4 x 10	20 mm	N0777243
60-Position	5 x 12	16 mm	N0777244
90-Position	6 x 15	13 mm	N0777245

Microtiter Plates

Description	Qty.	Part No.
48 Well, 5 mL, Square Well, Pyramid Bottom	5	N0777237
48 Well, 7.5 mL, Square Well, Pyramid Bottom	3	N0777238
96 Well, 2 mL, Square Well, Pyramid Bottom	5	N0777239

Autosampler Tubes

PerkinElmer translucent polypropylene tubes are designed to provide excellent chemical resistance. PerformR™ 15 mL and 50 mL conical tubes are designed for your routine everyday applications and storage needs. SuperClear™ tubes are made from a unique medical grade resin.



Round Bottom Tubes



Description	Туре	Size	Pack	Qty	Part No.
8 mL without Caps	Standard	13 mm x 100 mm	Bulk	1200	N0777156
8 mL without Caps	Standard	13 mm x 100 mm	250/Bag	1000	N0777159
8 mL without Caps	Standard	13 mm x 100 mm	Bulk	1000	B0508901
14 mL without Caps	Standard	17 mm x 100 mm	Bulk	1000	N0777940
14 mL with Dual-Position, Polyethylene Caps Included	Standard	17 mm x 100 mm	Bulk	1000	N0777941
14 mL without Caps	Standard	17 mm x 100 mm	250/Bag	1000	N0777168
15 mL without Plugs	Standard	17 mm x 100 mm	Bulk	1200	N0777167
Plugs for 15 mL N0777167 Tubes, (Blue) Plugs Only	Standard		Bulk	1200	N0777599
15 mL Graduated without Plugs	Standard	17 mm x 100 mm	Bulk	2000	N0777099
16 mL without Caps	Standard	17 mm x 100 mm	250/Bag	1000	N9301205

Conical Bottom Tubes with Graduation



Description	Type	Size	Pack	Qty	Part No.
15 mL with Red Flat Caps, (Standard PerkinElmer S10 Tubes)	Standard	17 mm x 120 mm	50/Bag	500	B0193233
15 mL Sterile Tubes, with Teal Flat Caps Attached	Sterile	17 mm x 118 mm	50/Bag	500	N0774095
15 mL Metal Free Sterile Tubes with White Flat Caps	Sterile	17 mm x 118 mm	50/Bag	500	N0776117
15 mL Metal Free Sterile Tubes Racked with White Flat Caps	Sterile	17 mm x 118 mm	25/Rack	500	N0776118
15 mL with Teal Flat Caps Attached	SuperClear	17 mm x 118 mm	50/bag	500	N0777701
15 mL with Teal Flat Caps Attached	SuperClear	17 mm x 118 mm	Racked 50/Bag	500	N0777702
15 mL with Teal Flat Caps Attached	SuperClear	17 mm x 118 mm	Bulk	500	N0777703
15 mL with Teal Plug Caps	SuperClear	17 mm x 118 mm	Bulk	500	N0777706
50 mL with Red Flat Caps Attached, (Standard PerkinElmer S10 Tubes), Freestanding	Standard	28 mm x 115 mm	25/Bag	500	B0193234
50 mL with Teal Flat Caps Attached, Freestanding	PerformR	30 mm x 116 mm	Bulk	500	N0777698
50 mL with Teal Plug Caps Included, Freestanding	PerformR	30 mm x 116 mm	Bulk	500	N0777700
50 mL Metal Free Sterile Tubes with White Flat Caps	Sterile	29 mm x 115 mm	50/Bag	500	N0776115
50 mL Metal Free Sterile Tubes Racked with White Flat Caps	Sterile	30 mm x 116 mm	25/Rack	500	N0776116
50 mL with Teal Flat Caps Included	SuperClear	29 mm x 115 mm	Bulk	500	N0777693

PFA Bottles, Vials and Caps



Description	Qty	Part No.
20 mL, 28 mm OD PFA Bottle and Cap	5	N0777406

Non-PFA Bottles and Vials



Description	Qty	Part No.
4 L, Polypropylene Rinse Container with Filtered Air Inlet	1	N0777258
125 mL, 50 mm OD Polyethylene Bottle with Screw Cap	12	N0777820

Instrument Benches and Accessory Carts



Avio 200/500 Bench Part No. **N0782060**



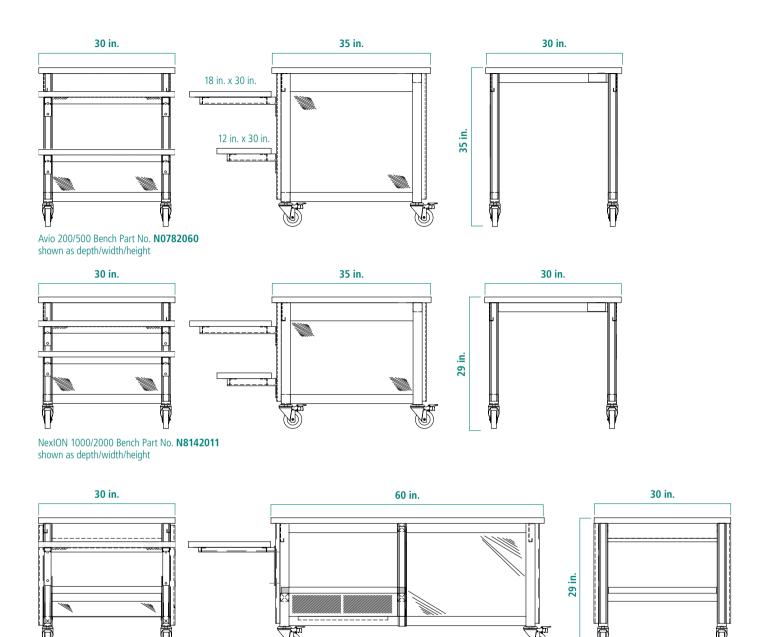
Lab space is precious and it can be a challenge to find room for a new instrument or accessory. To make the transition easier, we've customized every bench we offer for your instrument and accessory configuration, enabling you to use your lab space to its full potential. Whether you're making room for a new instrument or replacing an old system, we have a bench solution for you.





Dimensions (Depth x Width x Height — inches)	Model	Product Line	Part No.
30 x 60 x 34	PinAAcle 500/900	AA	N0777783
30 x 35 x 35	Avio 200/500	ICP-OES	N0782060
30 x 60 x 35 33 x 21	Optima Basic Optional Large Shelf for Optima Basic Bench (Shelf Only)	ICP-OES ICP-OES	N0773106 N0777930
30 x 60 x 35	Optima Advanced	ICP-OES	N0771725
30 x 35 x 29	NexION 1000/2000 Bench Not Including Vacuum Pump Dolly NexION 1000/2000 Vacuum Pump Dolly Only	ICP-MS ICP-MS	N8142011 N8142012
30 x 60 x 29	NexION 350 Bench Including Vacuum Pump Dolly	ICP-MS	N8141230
26	Monitor Arm for Optima Advanced or NexION 350 Bench	ICP-OES/ICP-MS	N0771726
32 x 30 x 29	Titan/MPS 320	AA/ICP-OES/ICP-MS	N0777900
16 x 19 x 34	Accessory Cart	Various	N0777784
16 x 22 x 34	Accessory Cart	Various	N0777785

ATOMIC SPECTROSCOPY GENERAL SUPPLIES



NexION 350 Bench Part No. **N8141230** shown as depth/width/height

Reference Materials

PerkinElmer offers a complete selection of Atomic Spectroscopy reference materials. Each solution is supplied with a comprehensive Certificate of Analysis that documents the quality and reliability.

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PerkinElmer is a leading provider of Atomic Spectroscopy solutions. We've used our expertise to bring you a portfolio of the highest quality standards to enhance your instrument performance. From our Pure and Pure Plus Inorganic Aqueous Standards to our Metallo-Organic Standards, inside this guide you will find a range of standards that are certified and tested to provide you the quality and reliability you expect, for all your application needs.

At PerkinElmer, we're committed to helping you achieve success for your laboratory – starting with the standards you use everyday.

Aqueous Standards

PerkinElmer offers a wide selection of PerkinElmer Pure and Pure Plus Aqueous Standards for all of your application needs.





Metallo-Organic Standards

PerkinElmer offers a wide selection of Metallo-Organic Standards for all of your application needs.



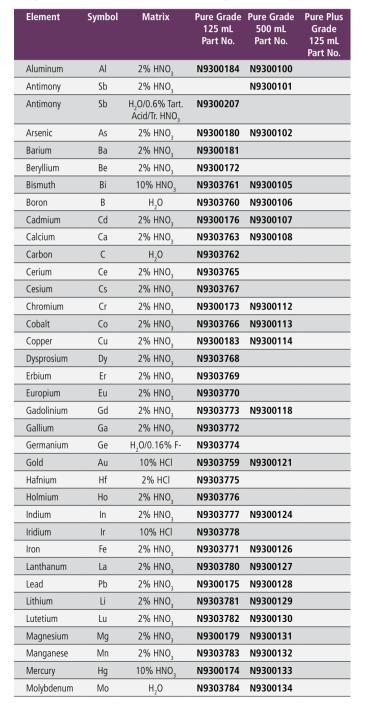


Single-Element Standards

We understand how important standards are to your laboratory. That's why we offer a complete selection of PerkinElmer Pure (AA and ICP-OES) and Pure Plus (ICP-MS) grade Standards supplied with a comprehensive Certificate of Analysis. Each solution is certified to provide you with the quality and reliability you expect, every time.

We offer 1 μ g/mL, 10 μ g/mL, 1,000 μ g/mL and 10,000 μ g/mL single-element standards in a variety of volumes and purity levels.

Single-Element Standards – 1,000 µg/mL





Element	Symbol	Matrix	Pure Grade 125 mL Part No.	Pure Grade 500 mL Part No.	Pure Plus Grade 125 mL Part No.
Neodymium	Nd	2% HNO ₃	N9303787		
Nickel	Ni	2% HNO ₃	N9300177	N9300136	
Niobium	Nb	H ₂ O/0.4% HF	N9303786		
Palladium	Pd	10% HCl	N9303789	N9300138	
Phosphorus	Р	H ₂ O	N9303788	N9300139	
Platinum	Pt	10% HCl	N9303791		
Potassium	K	2% HNO ₃	N9303779	N9300141	
Praseodymium	Pr	2% HNO ₃	N9303790		
Rhenium	Re	H ₂ O	N9303793	N9300143	
Rhodium	Rh	10% HCl	N9303794	N9300144	
Rubidium	Rb	2% HNO ₃	N9303792		
Ruthenium	Ru	10% HCl	N9303795		
Samarium	Sm	2% HNO ₃	N9303800		
Scandium	Sc	2% HNO ₃	N9303798	N9300148	
Selenium	Se	2% HNO ₃	N9300182	N9300149	
Silicon	Si	H ₂ O/0.4% F-	N9303799	N9300150	
Silver	Ag	2% HNO ₃	N9300171	N9300151	
Sodium	Na	2% HNO ₃	N9303785	N9300152	
Strontium	Sr	2% HNO ₃	N9303802	N9300153	
Sulfur	S	H_2O	N9303796	N9300154	
Tantalum	Ta	H ₂ O/0.8% HF	N9303803		
Tellurium	Te	10% HNO ₃	N9304385	N9304384	
Terbium	Tb	2% HNO ₃	N9303804		
Tin	Sn	20% HCl	N9303801	N9300161	
Tin	Sn	1% HNO ₃ /1% HF			N9303838
Thallium	TI	2% HNO ₃	N9300170		
Thorium	Th	2% HNO ₃			N9303842
Thulium	Tm	2% HNO ₃	N9303807		
Titanium	Ti	H ₂ 0/0.24% F-	N9303806	N9300162	N9303754
Tungsten	W	H ₂ O	N9303809	N9300163	
Uranium	U	2% HNO ₃			N9303844
Vanadium	V	2% HNO ₃	N9303808		
Ytterbium	Yb	2% HNO ₃	N9303811	N9300166	
Yttrium	Υ	2% HNO ₃	N9303810	N9300167	
Zinc	Zn	2% HNO ₃	N9300178	N9300168	
Zirconium	Zr	2% HNO ₃	N9303812		

Single-Element Pure Plus ICP-MS Grade Standards – 1 μ g/mL

Aluminum Al 2% HCI N9304200 Aluminum Al 2% HNO3 N9304201 Antimony Sb H2O/Tr. HNO3/Tr. Tart N9304203 Arsenic As 2% HCI N9304204 Arsenic As 2% HNO3 N9304205 Barium Ba 2% HNO3 N9304207 Beryllium Be 2% HNO3 N9304208 Bismuth Bi 2% HNO3 N9304209 Boron B H2O N9304210 Cadmium Cd 2% HCI N9304211 Cadmium Cd 2% HNO3 N9304212 Calcium Ca 2% HCI N9304213 Calcium Ca 2% HCI N9304213	ide
Antimony Sb H ₂ O/Tr. HNO ₃ /Tr. Tart N9304203 Arsenic As 2% HCl N9304204 Arsenic As 2% HNO ₃ N9304205 Barium Ba 2% HNO ₃ N9304207 Beryllium Be 2% HNO ₃ N9304208 Bismuth Bi 2% HNO ₃ N9304209 Boron B H ₂ O N9304210 Cadmium Cd 2% HCl N9304211 Cadmium Cd 2% HNO ₃ N9304212 Calcium Ca 2% HCl N9304213	
Arsenic As 2% HCI N9304204 Arsenic As 2% HNO3 N9304205 Barium Ba 2% HNO3 N9304207 Beryllium Be 2% HNO3 N9304208 Bismuth Bi 2% HNO3 N9304209 Boron B H2O N9304210 Cadmium Cd 2% HCI N9304211 Cadmium Cd 2% HNO3 N9304212 Calcium Ca 2% HCI N9304213	
Arsenic As 2% HNO ₃ N9304205 Barium Ba 2% HNO ₃ N9304207 Beryllium Be 2% HNO ₃ N9304208 Bismuth Bi 2% HNO ₃ N9304209 Boron B H ₂ O N9304210 Cadmium Cd 2% HCl N9304211 Cadmium Cd 2% HNO ₃ N9304212 Calcium Ca 2% HCl N9304213	
Barium Ba 2% HNO3 N9304207 Beryllium Be 2% HNO3 N9304208 Bismuth Bi 2% HNO3 N9304209 Boron B H2O N9304210 Cadmium Cd 2% HCl N9304211 Cadmium Cd 2% HNO3 N9304212 Calcium Ca 2% HCl N9304213	
Beryllium Be 2% HNO3 N9304208 Bismuth Bi 2% HNO3 N9304209 Boron B H20 N9304210 Cadmium Cd 2% HCI N9304211 Cadmium Cd 2% HNO3 N9304212 Calcium Ca 2% HCI N9304213	
Bismuth Bi 2% HNO ₃ N9304209 Boron B H ₂ O N9304210 Cadmium Cd 2% HCI N9304211 Cadmium Cd 2% HNO ₃ N9304212 Calcium Ca 2% HCI N9304213	
Boron B H₂O N9304210 Cadmium Cd 2% HCl N9304211 Cadmium Cd 2% HNO₃ N9304212 Calcium Ca 2% HCl N9304213	
Cadmium Cd 2% HCl N9304211 Cadmium Cd 2% HNO ₃ N9304212 Calcium Ca 2% HCl N9304213	
Cadmium Cd 2% HNO ₃ N9304212 Calcium Ca 2% HCl N9304213	
Calcium Ca 2% HCl N9304213	
Calcium Ca 2% HNO ₃ N9304214	
Cerium Ce 2% HNO ₃ N9304216	
Cesium Cs 2% HNO ₃ N9304217	
Chromium Cr 2% HCl N9304218	
Chromium Cr 5% HNO ₃ N9304219	
Chromium Cr H ₂ O N9304220	
Cobalt Co 2% HCl N9304221	
Cobalt Co 2% HNO ₃ N9304222	
Copper Cu 2% HCl N9304223	
Copper Cu 2% HNO ₃ N9304224	
Gadolinium Gd 2% HNO ₃ N9304228	
Gallium Ga 2% HNO ₃ N9304229	
Germanium Ge H ₂ O N9304230	
Gold Au 1% HNO ₃ /3% HCL N9304231	
Iridium Ir 2% HCI N9304235	
Iron Fe 2% HCI N9304236	
Iron Fe 2% HNO ₃ N9304237	
Lanthanum La 2% HNO ₃ N9304238	
Lead Pb 2% HNO ₃ N9304239	
Lithium Li 2% HNO ₃ N9304241	
Magnesium Mg 2% HNO ₃ N9304244	

Element	Symbol	Matrix	Pure Plus Grade 125 mL Part No.
Manganese	Mn	2% HNO ₃	N9304245
Potassium	K	2% HNO ₃	N9304248
Molybdenum	Мо	H ₂ O	N9304249
Niobium	Nb	H ₂ O/tr HF	N9304250
Nickel	Ni	2% HNO ₃	N9304252
Palladium	Pd	2% HCl	N9304253
Phosphorus	Р	H ₂ O	N9304254
Platinum	Pt	2% HCl	N9304255
Rubidium	Rb	2% HNO ₃	N9304257
Rhenium	Re	H ₂ O	N9304258
Ruthenium	Ru	2% HCI	N9304260
Scandium	Sc	2% HNO ₃	N9304262
Selenium	Se	2% HNO ₃	N9304263
Silicon	Si	H ₂ O/Tr. F-	N9304264
Silver	Ag	2% HNO ₃	N9304265
Sodium	Na	2% HCl	N9304266
Strontium	Sr	2% HNO ₃	N9304269
Sulfur	S	H ₂ O	N9304270
Tantalum	Ta	H₂O/tr HF	N9304271
Tellurium	Te	5% HCI	N9304272
Thallium	TI	2% HNO ₃	N9304275
Thorium	Th	2% HNO ₃	N9304276
Thulium	Tm	2% HNO ₃	N9304277
Tin	Sn	2% HNO₃/tr HF	N9304279
Titanium	Ti	H₂O/tr HF	N9304280
Tungsten	W	2% HNO ₃ /tr HF	N9304281
Uranium	U	2% HNO ₃	N9304283
Vanadium	V	2% HNO ₃	N9304285
Ytterbium	Yb	2% HNO ₃	N9304286
Yttrium	Υ	2% HNO ₃	N9304287
Zinc	Zn	2% HNO ₃	N9304289
Zirconium	Zr	2% HNO ₃	N9304291

Single-Element Pure Standards - 10,000 µg/mL

Element	Symbol	Matrix	Pure Plus Grade 125 mL Part No.	Pure Grade 500 mL Part No.
Aluminum	Al	5% HNO ₃	N9304111	N9304110
Antimony	Sb	H ₂ O/Tartaric Acid/Tr HNO ₃	N9304293	
Arsenic	As	5% HNO ₃	N9304295	
Barium	Ва	5% HNO ₃	N9304297	
Boron	В	H ₂ O	N9304301	
Cadmium	Cd	5% HNO ₃	N9304303	N9304304
Calcium	Ca	5% HNO ₃	N0691581	N9303764
Cesium	Cs	5% HNO ₃	N9304307	
Chromium	Cr	5% HNO ₃	N9304309	N9304311
Cobalt	Со	5% HNO ₃	N9304313	
Copper	Cu	5% HNO ₃	N9304112	N9300283
Iron	Fe	5% HNO ₃	N9304113	N9307117
Lead	Pb	5% HNO ₃	N9304321	
Lithium	Li	5% HCl		N9304322
Lithium	Li	5% HNO ₃	N9304323	N9304324
Magnesium	Mg	5% HNO ₃	N0691745	N9304114
Manganese	Mn	5% HNO ₃	N9304115	
Molybdenum	Мо	H ₂ O/0.4% HF	N9304327	
Nickel	Ni	5% HNO ₃	N9304117	N9304116
Phosphorus	Р	H ₂ O	N9304119	
Potassium	K	5% HNO ₃	N9304121	N9304120
Scandium	Sc	5% HNO ₃	N9304333	N9304334
Silicon	Si	H ₂ O/4% F-	N9304122	
Silver	Ag	5% HNO₃	N9304337	
Sodium	Na	5% HNO₃	N9304124	
Strontium	Sr	5% HNO ₃		N9304341
Sulfur	S	H ₂ O	N9304126	N9304125
Tantalum	Ta	H ₂ O		N9304342
Tin	Sn	20% HCl	N9304345	N9304346
Titanium	Ti	40% HCl		N9304347
Titanium	Ti	H ₂ 0/2.4% F-	N9304348	N9304349
Tungsten	W	2% HNO ₃ /5% HF		N9304350
Tungsten	W	H ₂ O	N9304351	N9304352
Vanadium	V	15% HNO ₃	N9304356	
Yttrium	Υ	5% HNO ₃	N9304128	
Zinc	Zn	5% HNO ₃	N9304129	

Pure Grade Standards for AA and ICP-OES

- Analyzed by ICP-OES
- Analyzed by Classical Wet Assay
- 32 trace impurities analyzed by ICP-MS of the final solution and reported on the certificate



- Impurities reported at ppm level
- All Standards are prepared and certified under ISO Guide 34 and ISO 17025

Pure Plus Grade Standards for ICP-MS

- Analyzed by ICP-OES
- Analyzed by Classical Wet Assay
- 67 trace impurities analyzed by ICP-MS of the final solution and reported on the certificate
- Impurities reported at ppb level
- All Standards are prepared and certified under ISO Guide 34 and ISO 17025

Custom Single and Multi-element Standards for Inorganic Analysis

We understand how important
Standards are to your laboratory.
That's why we've expanded
PerkinElmer Pure and Pure Plus
Standards to include custom
Standards. We offer a complete
selection of stock, single and
multi-element, atomic spectroscopy
aqueous Standards, and now provide
single-element and multi-element



custom Standards, prepared to meet your exact specifications. Each solution is supplied with a comprehensive Certificate of Analysis to provide you with the quality and reliability you expect, every time.

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Matrix Modifiers and AA Test Mixes

We offer standards specifically for your Atomic Absorption (AA) instrument. From mixed standards to reagents, we have what you need for your AA analysis.



Matrix Modifiers for Graphite Furnace AA

Matrix	Content	Volume	Part No.
$Mg(NO_3)_2$	1% Mg (NO ₃) ₂ (as nitrate)	100 mL	B0190634
Pd	1% Pd (as nitrate)	50 mL	B0190635
NH ₄ H ₂ PO ₄	10% NH ₄ H ₂ PO ₄	100 mL	N9303445

GFAAS Mixed Standard

Matrix	Content	Volume	Part No.
5% HNO ₃ with trace HF	100 μg/mL: Al, As, Pb, Sb, Se, Tl 50 μg/mL: Ba, Co, Cu, Ni 20 μg/mL: Cr, Fe, Mn 10 μg/mL: Ag 5 μg/mL: Be, Cd	125 mL	N9300244

AA Test Mix

Matrix	Content	Volume	Part No.
2% HCl	50 μg/mL: Ca, Cr, Cu, Fe, Ni 20 μg/mL: K	125 mL	02900540
	10 μg/mL: Na, Zn		

Reagents

Description	Volume	Part No.
Triton® X-100 Wetting Agent	100 mL	N9300260
Antifoaming Silicone Emulsion	500 mL	B0507226



Multi-Element Standards

Our go-to multi-element standards are suitable for your daily laboratory needs. Spanning across a wide range of applications and methods, you'll find the right solution to help you achieve laboratory success.

Multi-Element Standards

Multi-Element Solution	Matrix	Content	Volume	Part No.
Multi-Element Solution 5% HNO ₃ 1,000 μg/mL: K, Na, P 500 mL N9307114 Multi-Element Solution 2-5% HNO ₃ 1,000 μg/mL: Mo, Sb, Sn, W, Zr 500 mL N9307115 Multi-Element Solution 5% HNO ₃ 1,000 μg/mL: As, Ba, Be, Cd, Cr, Co, Cu, La, Pb, Li, Mn, Ni, Sc, Sr, V, Y, Zn 5% HNO ₃ 100 μg/mL: Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 1 2% HNO ₃ 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 4 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 N9300235 Set of Multi-Element Solutions N9300236 Nulti-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 Includes: (1 bottle of each)	Multi-Element So	olution		
1,000 μg/mL: K, Na, P 500 mL N9307114	5% HNO₃	1,000 μg/mL: Al, Ca, Fe, Mg	500 mL	N9307113
Multi-Element Solution 2-5% HNO ₃ 1,000 μg/mL: Mo, Sb, Sn, W, Zr 500 mL N9307115 Multi-Element Solution 5% HNO ₃ 1,000 μg/mL: As, Ba, Be, Cd, Cr, Co, Cu, La, Pb, Li, Mn, Ni, Sc, Sr, V, Y, Zn 5% HNO ₃ 100 μg/mL: Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 1 2% HNO ₃ 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 N9300235 N9300236 N9300236 N9300236	Multi-Element So	olution		
2-5% HNO ₃ 1,000 μg/mL: Mo, Sb, Sn, W, Zr 500 mL N9307115 Multi-Element Solution 5% HNO ₃ 1,000 μg/mL: As, Ba, Be, Cd, Cr, Co, Cu, La, Pb, Li, Mn, Ni, Sc, Sr, V, Y. Zn 5% HNO ₃ 100 μg/mL: Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 1 2% HNO ₃ 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 without Mercury 125 mL N9300233 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 N9300235 N9300236 N9300236	5% HNO ₃	1,000 μg/mL: K, Na, P	500 mL	N9307114
Multi-Element Solution 5% HNO3 1,000 μg/mL: As, Ba, Be, Cd, Cr, Co, Cu, La, Pb, Li, Mn, Ni, Sc, Sr, V, Y, Zn 500 mL N9307116 5% HNO3/trace HF 100 μg/mL: Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn N9308541 5% HNO3 100 μg/mL: Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn N9308543 Multi-Element Solution 1 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U 125 mL N9300231 Multi-Element Solution 2 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb N9300232 N9300232 Multi-Element Solution 3 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. N9300233 Multi-Element Solution 3 without Mercury 125 mL N9300235 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 H ₃ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 Set of Multi-Element Solutions Includes: (1 bottle of each) N9300232	Multi-Element So	olution		
1,000 μg/mL: As, Ba, Be, Cd, Cr, Co, Cu, La, Pb, Li, Mn, Ni, Sc, Sr, V, Y, Zn 5% HNO ₃ /trace HF 100 μg/mL: Ge, Mo, S, Si, Ti 125 mL N9308541 5% HNO ₃ 100 μg/mL: Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 1 2% HNO ₃ 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 without Mercury Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 N9300235 Set of Multi-Element Solutions Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	2-5% HNO ₃	1,000 μg/mL: Mo, Sb, Sn, W, Zr	500 mL	N9307115
Co, Cu, La, Pb, Li, Mn, Ni, Sc, Sr, V, Y, Zn 5% HNO ₃ /trace HF 100 μg/mL: Ge, Mo, S, Si, Ti 125 mL N9308541 5% HNO ₃ 100 μg/mL: Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 1 2% HNO ₃ 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 without Mercury Multi-Element Solution 4 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 Set of Multi-Element Solutions Si, Ta, Ti, W, Zr Set of Multi-Element Solutions N9300232	Multi-Element So	olution		
5% HNO ₃ 100 μg/mL: Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 1 2% HNO ₃ 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 Multi-Element Solution 4 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 N9300235 Set of Multi-Element Solutions Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	5% HNO ₃	Co, Cu, La, Pb, Li, Mn, Ni, Sc, Sr,	500 mL	N9307116
Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Tl, U, V, Zn Multi-Element Solution 1 2% HNO ₃ 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 without Mercury Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 Set of Multi-Element Solutions N9300236 Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	5% HNO ₃ /trace HF	100 μg/mL: Ge, Mo, S, Si, Ti	125 mL	N9308541
2% HNO ₃ 10 μg/mL: Be, Bi, Ce, Co, In, Mg, Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 Multi-Element Solution 4 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 Set of Multi-Element Solutions Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	5% HNO ₃	Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn,	125 mL	N9308543
Ni, Pb, U Multi-Element Solution 2 5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn "Supplied in separate bottle. Multi-Element Solution 3 without Mercury 125 mL N9300235 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 trace HNO ₃ Set of Multi-Element Solutions Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	Multi-Element So	olution 1		
5% HNO ₃ 10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 without Mercury 125 mL N9301720 Multi-Element Solution 5 H ₂ O/trace HF/ trace HNO ₃ Si, Ta, Ti, W, Zr Set of Multi-Element Solutions Includes: (1 bottle of each) Multi-Element Solution 2 N9300232	2% HNO ₃		125 mL	N9300231
Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb Multi-Element Solution 3 5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 without Mercury 125 mL N9301720 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL V9300235 trace HNO ₃ Set of Multi-Element Solutions Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	Multi-Element So	olution 2		
5% HNO ₃ 10 μg/mL: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 without Mercury 125 mL N9301720 Multi-Element Solution 4 Multi-Element Solution 5 H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL Trace HNO ₃ Set of Multi-Element Solutions N9300236 Includes: (1 bottle of each) Multi-Element Solution 2 N9300232	5% HNO ₃	Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th,	125 mL	N9300232
Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn *Supplied in separate bottle. Multi-Element Solution 3 without Mercury 125 mL N9301720 Multi-Element Solution 4 Multi-Element Solution 5 H_O/trace HF/ 10 µg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL N9300235 trace HNO ₃ Si, Ta, Ti, W, Zr Set of Multi-Element Solutions Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	Multi-Element So	olution 3		
Multi-Element Solution 4 Multi-Element Solution 5 H ₂ O/trace HF/ 10 µg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL trace HNO ₃ Si, Ta, Ti, W, Zr Set of Multi-Element Solutions N9300236 Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	5% HNO ₃	Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn	125 mL	N9300233
Multi-Element Solution 4 Multi-Element Solution 5 H ₂ O/trace HF/ 10 µg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL trace HNO ₃ Si, Ta, Ti, W, Zr Set of Multi-Element Solutions N9300236 Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	Multi-Element So	olution 3 without Mercury		
Multi-Element Solution 5 H ₂ O/trace HF/ trace HF/ trace HNO ₃ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL trace HNO ₃ N9300235 Set of Multi-Element Solutions Includes: (1 bottle of each) N9300236 Multi-Element Solution 2 125 mL N9300232			125 mL	N9301720
H ₂ O/trace HF/ 10 μg/mL: B, Ge, Mo, Nb, P, Re, S, 125 mL trace HNO ₃ Si, Ta, Ti, W, Zr Set of Multi-Element Solutions N9300236 Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	Multi-Element So	olution 4		
trace HNO ₃ Si, Ta, Ti, W, Zr Set of Multi-Element Solutions N9300236 Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	Multi-Element So	olution 5		
Includes: (1 bottle of each) Multi-Element Solution 2 125 mL N9300232	2		125 mL	N9300235
				N9300236
Mulhi Flamont Colution 2 125 ml N0200222		Multi-Element Solution 2	125 mL	N9300232
Muiti-Element Solution 3 125 ML N9300233		Multi-Element Solution 3	125 mL	N9300233
Multi-Element Solution 5 125 mL N9300235		Multi-Element Solution 5	125 mL	N9300235
Water Blank 125 mL N9303814		Water Blank	125 mL	N9303814

Matrix	Content	Volume	Part No.
PerkinElmer Pu	re IV (Quality Control Standard	23)	
10% HNO ₃	1,000 μg/mL: Ag, Al, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Sr, Tl, Zn	125 mL	N9303941
PerkinElmer Pu	re VIII		
5% HNO ₃	100 µg/mL: Al, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Li, Mg, Mn, Na, Ni, Pb, Se, Sr, Te, Tl, Zn	125 mL	N9303942
PerkinElmer Pu	re IX		
5% HNO ₃	100 μg/mL: As, Be, Pb, Cd, Cr, Ni, Se, Tl	125 mL	N9303943
PerkinElmer Pu	re X		
2% HNO ₃	35,000 μg/L: Ca 15,000 μg/L: Mg 8,000 μg/L: Na 3,000 μg/L: K 100 μg/L: B, Fe, Mo, Sr 50 μg/L: As, Ba, Ni, V, Zn 30 μg/L: Mn 25 μg/L: Co, Pb 20 μg/L: Bi, Cd, Cr, Cu 10 μg/L: Bi, Se, Tl	125 mL	N9303944
5 μg/mL Mercu	ry in 5% HNO ₃		
5% HNO ₃	5 μg/mL: Hg	125 mL	N9303949
PerkinElmer Pu	re XIII		
5% HNO ₃	500 μg/mL: Al 250 μg/mL: V 100 μg/mL: As, Be, Co, Cr, Cu, Fe, Mn, Ni, Pb, Zn 25 μg/mL: Cd, Se	125 mL	N9303946



Multi-Element Standards Continued

Matrix	Content	Volume	Part No.
PerkinElmer Pure	XVI (Quality Control Standard	l, 21 Elements)
5% HNO ₃ /trace Tartaric Acid/ trace HF	100 µg/mL: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	125 mL	N9300281
PerkinElmer Pure	e VI		
1 mol/L HNO ₃ / trace Tartaric Acid	10 μg/mL: Ag, Al, Ba, Bi, Cd, Co, Cr, Cu, Ga, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Rb, Sr, Te, Tl, U, V, 100 μg/mL: As, B, Be, Fe, Se, Zn, 1000 μg/mL: Ca	125 mL	N9307741
Multi-Element St	tandard		
10% HNO ₃	100 µg/mL: As, Ba, Ca, Cd, Be, Bi, Ce, Cs, Cr, Co, Cu, Dy, Er, Eu, Gd, Ga, Ho, In, La, Pb, Li, Lu, Mn, Nd, Ni, Pr, Rb, Sm, Sc, Se, Sr, Tb, Tl, Th, Tm, U, V, Yb, Y, Zn	125 mL	N9308544
Multi-Element St	tandard A		
5% HNO ₃ /1% HF/ trace Tartaric Acid	100 μg/mL: Ge, Hf, Mo, Nb, Sb, Sn, Ta, Te, Ti, W, Zr	125 mL	N9308545
Multi-Element St	tandard B		
10% HNO ₃	10,000 μg/mL: Ca, K, Mg, Na, P	125 mL	N9308546
Multi-Element St	tandard C		
5% HNO ₃	10,000 μg/mL: Al, Fe	125 mL	N9308547
Multi-Element St	tandard E		
5% HNO ₃	10 μg/mL: Ag, Hg	125 mL	N9308549

Quality Control Standards

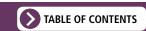
Matrix	Content	Volume	Part No.
Quality Control	Standard 1B		
10% HNO ₃	1,000 µg/mL: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Se, Sr, Ti, Tl, V, Zn	125 mL	N9304131
Quality Control	Standard, 21 Elements Pure (Pu	re XVI)	
3	100 μg/mL: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	125 mL	N9300281
Quality Control	Standard, 21 Elements Pure Plu	s	
5% HNO ₃ /trace Tartaric Acid/ trace HF	100 μg/mL: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	125 mL	N9303837
Quality Control	Standard, 7A Elements		
5% HNO ₃ /trace HF	- 1,000 μg/mL: K 500 μg/mL: Si 100 μg/mL: Al, B, Ba, Na 50 μg/mL: Ag	125 mL	N9300280

Mixed Calibration Standards

Matrix	Content	Volume	Part No.
Mixed Calibration	n Standard		
2% HNO ₃	50 μg/mL: As, K 10 μg/mL: La, Li, Mn, Ni, Sr, Zn 1 μg/mL: Ba, Mg	500 mL	N0691579
Mixed Calibration	n Standard 1		
2% HNO ₃	500 μg/mL: Pb 200 μg/mL: Se 150 μg/mL: Cd, Zn 100 μg/mL: Mn 50 μg/mL: Be	125 mL	N9300200
Mixed Calibration	n Standard 2		
5% HNO ₃	10,000 μg/mL: Fe 100 μg/mL: Ba, Co, Cu, V	125 mL	N9300201
Mixed Calibration	n Standard 3		
2% HNO ₃ /Tr. HF	500 μg/mL: As 100 μg/mL: Mo, Si	125 mL	N9300202
Mixed Calibration	n Standard 4		
5% HNO ₃	1,000 μg/mL: Ca 400 μg/mL: K 200 μg/mL: Al, Na 20 μg/mL: Cr, Ni	125 mL	N9300203
Mixed Calibration	n Standard 5		
5% HNO ₃ /trace Tartaric Acid/ trace HF	1,000 μg/mL: Mg 200 μg/mL: Sb, Tl 100 μg/mL: B 50 μg/mL: Ag	125 mL	N9300204

Spike Standards

Matrix	Content	Volume	Part No.
Spike Sample S	tandard I		
5% HNO ₃ /trace Tartaric Acid/ trace HF	200 μg/mL: Al, As, Ba, Se, Tl 100 μg/mL: Fe 50 μg/mL: Co, Mn, Ni, Pb, Sb, V, Zn 25 μg/mL: Cu 20 μg/mL: Cr 5 μg/mL: Ag, Be, Cd	125 mL	N9300230
Spike Sample S	tandard 2 (Soil)		
5% HNO ₃ /trace Tartaric Acid/ trace HF	250 μg/mL: Ba, Cr, Cu, Zn 150 μg/mL: V 125 μg/mL: Ni 100 μg/mL: Co, Pb, Sb 50 μg/mL: As, Cd 25 μg/mL: Ag, Be, Se, Tl	125 mL	N9303840



Environmental Analysis Standards

We offer a variety of environmental analysis standards for all your environmental application needs.

Environmental Method Sets

Matrix	Content	Volume	Part No.
Environmental Includes 1 bottle	Standard Kit for NexION Standa of each:	rd Mode	N9307118
5% HNO ₃	1,000 μg/mL: Ca, K, Mg, Na	125 mL	N9307805
5% HNO ₃	1,000 μg/mL: Al, Fe	125 mL	N9307806
5% HNO ₃ /trace Tartaric Acid/ trace HF	100 μg/mL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	N9301721
2% HNO ₃	100 μg/mL: B, Th, U	125 mL	N9307807
5% HNO ₃	10 μg/mL: Hg	125 mL	N9300253
2% HNO ₃	50 μg/mL: Sc, Ge 10 μg/mL: Rh, In, Tb	125 mL	N9308591
Environmental	Standards for NexION KED/DRC	Mode	
5% HNO ₃	1,000 μg/mL: Ca, K, Mg, Na	125 mL	N9307805
5% HNO ₃	1,000 μg/mL: Al, Fe	125 mL	N9307806
5% HNO ₃ /trace Tartaric Acid/ trace HF	100 μg/mL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	N9301721
2% HNO ₃	100 μg/mL: B, Th, U	125 mL	N9307807
5% HNO ₃	10 μg/mL: Hg	125 mL	N9300253
2% HNO ₃	100 µg/mL: Sc 50 µg/mL: Ge 1 µg/mL: Rh, In, Tb	125 mL	N9308592
Environmental Standard ICP-N	Standards for ELAN non-DRC/ IS Instruments		
5% HNO ₃	1,000 μg/mL: Ca, K, Mg, Na	125 mL	N9307805
5% HNO ₃	1,000 μg/mL: Al, Fe	125 mL	N9307806
	100 μg/ml.: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	N9301721
2% HNO ₃	100 μg/mL: B, Th, U	125 mL	N9307807
5% HNO ₃	10 μg/mL: Hg	125 mL	N9300253
Internal Standa	rd Mix		
5% HNO ₃ / trace HCL	50 μg/mL: Sc 20 μg/mL: Ge 10 μg/mL: In, Ir, Li6, Rh, Tb, Y	125 mL	N9307808

Matrix	Content	Volume	Part No.
	tandard Kit for ELAN DRC Instr		N9307112
Includes 1 bottle of		uments	N3307112
5% HNO,	1,000 μg/mL: Ca, K, Mg, Na	125 mL	N9307805
5% HNO ₃	1,000 μg/mL: Al, Fe	125 mL	N9307806
5% HNO ₃ /trace Tartaric acid/ trace HF	100 μg/mL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	N9301721
2% HNO ₃	100 μg/mL: B, Th, U	125 mL	N9307807
5% HNO ₃	10 μg/mL: Hg	125 mL	N9300253
5% HNO ₃ /trace HCl	Internal Standard Mix 200 μg/mL: Sc 20 μg/mL: Ga 10 μg/mL: In, Ir, Rh, Tm	125 mL	N9307738
Contract Lab Pro	gram Modification		
2% HNO ₃ /5% HCI	10 μg/mL: Ba, Be, Ce, Co, In, Li, Mg, Pb, Rh, Tl, U, Y	125 mL	N9303843
2% HNO ₃ /trace Tartaric Acid	20 μg/mL: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn	125 mL	N9303816
5% HNO ₃ /trace Tartaric Acid/ trace HF	100 μg/mL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	N9301721
2% HNO ₃ /trace Tartaric Acid/ trace HF	10 μg/mL: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn	125 mL	N9303821
5% HNO ₃	10 μg/mL: Hg	125 mL	N9300253
2% HNO ₃	200 μg/mL: Ca, Fe, K, Mg, Na	125 mL	N9303822
2% HNO ₃ /trace HF	10 μg/mL: Mo, Sn, Sr, Ti	125 mL	N9303824
5% HNO ₃ /trace HF	21,215 µg/mL: Cl 3,000 µg/mL: Ca 2,500 µg/mL: Fe, Na 2,000 µg/mL: C 1,000 µg/mL: Al, K, Mg, P, S 20 µg/mL: Mo, Ti	125 mL	N9303827
5% HNO ₃ /trace Tartaric Acid/ trace HF	250 μg/mL: Ba, Cr, Cu, Zn 150 μg/mL: V 125 μg/mL: Ni 100 μg/mL: Co, Pb, Sb 50 μg/mL: As, Cd 5 μg/mL: Ag, Be, Se, Tl	125 mL	N9303840
5% HNO ₃	1,000 μg/mL: Al, Ca, Fe, K, Mg, Na 20 μg/mL: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Se, Tl, V, Zn	125 mL	N9303835



Matrix	Content	Volume	Part No.
		volulile	rait No.
	dards for Method 6010	425 1	110200240
5% HNO ₃	5,000 μg/mL: Ca, K, Mg, Na	125 mL	N9300218
5% HNO ₃	400 μg/mL: Ni 200 μg/mL: Zn	125 mL	N9300219
	150 μg/mL: Mn		
	100 μg/mL: Ag, Cr		
5% HNO ₃	2,000 μg/mL: Al, Ba	125 mL	N9300220
	1,000 μg/mL: Fe		
	500 μg/mL: Co, V 250 μg/mL: Cu		
	50 μg/mL: Be		
5% HNO ₃	100 μg/mL: As, Tl	125 mL	N9300221
	50 μg/mL: Cd, Pb, Se		
H ₂ O/trace HF	10 μg/mL: B, Ge, Mo, Nb, P, Re, S,	125 mL	N9300235
20/ 11NO	Si, Ta, Ti, W, Zr	F00 I	N0200120
2% HNO ₃	1,000 μg/mL: Li	500 mL	N9300129
2% HNO ₃	1,000 μg/mL: Sb	500 mL	N9300101
2% HNO ₃	1,000 μg/mL: Sr	500 mL	N9300153
20% HCl	1,000 μg/mL: Sn	500 mL	N9300161 N9300112
2% HNO ₃	1,000 μg/mL: Cr	500 mL 500 mL	
2% HNO ₃	1,000 μg/mL: Cu 1,000 μg/mL: Mn	500 mL	N9300114 N9300132
2% HNO ₃	1,000 μg/mL: Ni	500 mL	N9300132
2% HNO ₃ H ₂ O/tr HF	1,000 μg/mL: Ti	500 mL	N9300162
2% HNO ₃	1,000 μg/mL: Al	500 mL	N9300102
2% HNO ₃	1,000 μg/mL: Ai	500 mL	N9300108
2% HNO ₃	1,000 μg/mL: Mg	500 mL	N9300131
	rds for Method 6010 and 200.7	300 1112	113300131
2% HNO ₃	1,000 μg/mL: Y	500 mL	N9300167
2% HNO ₃	1,000 μg/mL: Sc	500 mL	N9300148
	utions for Method 6010	JOO TITE	N9307106
Includes 1 bottle o			113307100
2% HNO ₃	1,000 μg/mL: Al	125 mL	N9300184
2% HNO ₃	1,000 μg/mL: Mg	125 mL	N9300179
2% HNO ₃	1,000 μg/mL: K	500 mL	N9300141
2% HNO ₃	1,000 μg/mL: Na	500 mL	N9300152
2% HNO ₃	1,000 μg/mL: Cr	500 mL	N9300112
2% HNO ₃	1,000 μg/mL: Cu	500 mL	N9300114
2% HNO ₃	1,000 μg/mL: Mn	500 mL	N9300132
2% HNO ₃	1,000 μg/mL: Ni	500 mL	N9300136
H ₂ O/trace HF	1,000 μg/mL: Ti	500 mL	N9300162
5% HNO ₃	5,000 μg/mL: Al, Ca, Mg 2,000 μg/mL: Fe	500 mL	N9300226
5% HNO ₃ /trace	100 μg/mL: Cd, Ni, Zn	125 mL	N9300227
Tartaric Acid/ trace HF	60 μg/mL: Sb 50 μg/mL: Ba, Be, Co, Cr, Cu, Mn, V		
trace HF	20 μg/mL: Ag		
	10 μg/mL: As, Tl		
	5 μg/mL: Pb, Se		
5% HNO ₃	1,000 μg/mL: Cr, Cu, Mn, Ni, Ti, V	500 mL	N9300228
5% HNO ₃ /trace Tartaric Acid/	100 μg/mL: Al, As, B, Mo, Na, Sb, Se, Tl	125 mL	N9300229
trace HF	10 μg/mL: Ca, Fe, Mg, Si		

Matrix	Content	Volume	Part No.
Calibration Stan Includes 1 bottle o	dards for Method 200.7 f each:		N9307107
5% HNO ₃	5,000 μg/mL: Ca, K, Mg, Na	125 mL	N9300218
5% HNO ₃	400 µg/mL: Ni 200 µg/mL: Zn 150 µg/mL: Mn 100 µg/mL: Ag, Cr	125 mL	N9300219
5% HNO ₃	2,000 µg/mL: Al, Ba 1,000 µg/mL: Fe 500 µg/mL: Co, V 250 µg/mL: Cu 50 µg/mL: Be	125 mL	N9300220
5% HNO ₃	100 µg/mL: As, Tl 50 µg/mL: Cd, Pb, Se	125 mL	N9300221
H ₂ O/trace HF	10 μg/mL: B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W, Zr	125 mL	N9300235
2% HNO ₃	1,000 μg/mL: Li	500 mL	N9300129
2% HNO ₃	1,000 μg/mL: Sb	500 mL	N9300101
2% HNO ₃	1,000 μg/mL: Sr	500 mL	N9300153
20% HCl	1,000 μg/mL: Sn	500 mL	N9300161
Includes 1 bottle o			N9307108
2% HNO ₃	1,000 μg/mL: Al	125 mL	N9300184
2% HNO ₃	1,000 μg/mL: Mg	125 mL	N9300179
2% HNO ₃	1,000 μg/mL: K	500 mL	N9300141
2% HNO ₃	1,000 μg/mL: Na	500 mL	N9300152
5% HNO ₃	5,000 μg/mL: Al, Ca, Mg 2,000 μg/mL: Fe	500 mL	N9300226
Environmental E	PA		
2% HNO ₃	500 µg/mL: Pb 200 µg/mL: Se 150 µg/mL: Cd, Zn 100 µg/mL: Mn 50 µg/mL: Be	125 mL	N9300200
5% HNO ₃	10,000 μg/mL: Fe 100 μg/mL: Ba, Co, Cu, V	125 mL	N9300201
2% HNO ₃ /trace HF	500 μg/mL: As 100 mg/mL: Mo, Si	125 mL	N9300202
5% HNO ₃	1,000 μg/mL: Ca 400 μg/mL: K 200 μg/mL: Al, Na 20 μg/mL: Cr, Ni	125 mL	N9300203
5% HNO ₃ /trace Tartaric Acid/ trace HF	1,000 μg/mL: Mg 200 μg/mL: Sb, Tl 100 μg/mL: B 50 μg/mL: Ag	125 mL	N9300204
5% HNO ₃	100 μg/mL: Hg	125 mL	N9300223
H ₂ O/trace HNO ₃ /0.6% Tartari Acid	1,000 µg/mL: Sb c	125 mL	N9300207

Water Pollutant Standards

Matrix	Content	Volume	Part No.
Primary Drinking	Water Metals		
2% HNO ₃	100 μg/mL: Ba 10 μg/mL: Ag, As, Cr, Hg*, Pb 5 μg/mL: Cd, Se	125 mL	N9300216
Secondary Drinking	Water Metals		
2% HNO ₃	500 µg/mL: Zn 100 µg/mL: Cu 30 µg/mL: Fe 5 µg/mL: Mn	125 mL	N9300217
Trace Metals I			
5% HNO ₃	500 μg/mL: Al 250 μg/mL: V 100 μg/mL: As, Be, Co, Cr, Cu, Fe Mn, Ni, Pb, Zn 25 μg/mL: Cd, Se 10 μg/mL: Hg*	125 mL	N9300211
Trace Metals III			
2% HNO ₃	500 μg/mL: Ba, Ca, Mo, Na 100 μg/mL: K, Mg	125 mL	N9300213
Alternate Metals I			
2% HNO ₃	20 μg/mL: Al, Fe, V 10 μg/mL: Co, Cu, Mn, Ni, Zn 5 μg/mL: Be, Sb, Tl	125 mL	N9300214
Alternate Metals II			
2% HNO ₃	500 μg/mL: Ca, Na 100 μg/mL: K, Mg	125 mL	N9300215



Instrument Set-Up and Calibration Standards

From instrument installation to instrument calibration, we provide quality set-up, check and calibration standards to ensure instrument performance.

Instrument Calibration Standards

Matrix	Content	Volume	Part No.
Instrument Calil	bration Standard 1		
5% HNO ₃ /trace Tartaric Acid/ trace HF	20 μg/mL: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn	125 mL	N9303816
Instrument Calil	bration Standard 2		
5% HNO ₃ /trace Tartaric Acid/ trace HF	100 μg/mL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	N9301721
Instrument Calil	bration Standard 3		
5% HNO₃	1,000 μg/mL: Ca, Fe, K, Mg, Na	125 mL	N9303818
Initial Calibration	on Verification Standard 1		
5% HNO ₃ /trace Tartaric Acid	1,000 µg/mL: Ca, Fe, K, Mg, Na, Sr 10 µg/mL: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn, Th, U	125 mL	N9303825

ICP-OES Solutions

Matrix	Volume	Part No.
UV Wavecal Solution	500 mL	N0582152
Mixed Calibration Standard	500 mL	N0691579
Low UV Standard	250 mL	N0691580
Calcium Stray Light Standard	125 mL	N0691581
Magnesium Standard Pure	125 mL	N0691745
Optima Blank in 2% HNO ₃	500 mL	N0773120
Instrument Calibration Standard 4	125 mL	N9300221
Vis Wavecal Solution	250 mL	N9302946

Instrument Setup Solutions

Matrix	Content	Volume	Part No.
Vis Wavecal So	olution		
2% HNO ₃	50 μg/mL: K 10 μg/mL: La, Li, Mn, Na, Sr 1 μg/mL: Ba, Ca	250 mL	N9302946
UV Wavecal So	olution		
5% HCl	100 µg/mL: K, P, S 20 µg/mL: As, La, Li, Mn, Mo, Na, Mo, Na, Ni, Sc	250 mL	N0681470
5% HCl	100 μg/mL: K, P, S	500 mL	N0582152
	20 µg/mL: As, La, Li, Mn, Mo, Na, Ni, Sc 1 µg/mL: Ca		
Low UV Stand	ard		
2% HNO ₃	10 μg/mL: Al, P, S	250 mL	N0691580
Calcium Stray	Light Standard		
H ₂ O	10,000 μg/mL: Ca	125 mL	N0691581

Initial Calibration Verification Standards

Matrix	Contents	Volume	Part No.
5% HNO ₃ /trace Tartaric Acid	500 μg/mL: Ca, K, Mg, Na 200 μg/mL: Al, Ba 100 μg/mL: Fe 60 μg/mL: Sb 50 μg/mL: Co, V 40 μg/mL: Ni 25 μg/mL: Cu 20 μg/mL: Zn 15 μg/mL: Mn 10 μg/mL: Ag, As, Cr, Tl 5 μg/mL: Be, Cd, Se 3 μg/mL: Pb	500 mL	N9300224
5% HNO ₃ /trace Tartaric Acid	500 μg/mL: Ca, K, Mg, Na 200 μg/mL: Al, Ba 100 μg/mL: Fe 60 μg/mL: Sb 50 μg/mL: Co, V 40 μg/mL: Ni 25 μg/mL: Cu 20 μg/mL: Zn 15 μg/mL: Mn 10 μg/mL: Ag, As, Cr, Tl 5 μg/mL: Be, Cd, Se 3 μg/mL: Pb	125 mL	N9303953

Instrument Calibration Standards for CLP

Matrix	Content	Volume	Part No.
Instrument Cal	ibration Standard 1		
5% HNO ₃	5,000 μg/mL: Ca, K, Mg, Na	125 mL	N9300218
Instrument Cal	ibration Standard 2		
5% HNO ₃	400 µg/mL: Ni 200 µg/mL: Zn 150 µg/mL: Mn 100 µg/mL: Ag, Cr	125 mL	N9300219
Instrument Cal	ibration Standard 3		
5% HNO ₃	2,000 μg/mL: Al, Ba 1,000 μg/mL: Fe 500 μg/mL: Co, V 250 μg/mL: Cu 50 μg/mL: Be	125 mL	N9300220
Instrument Calibration Standard 4			
5% HNO ₃	100 μg/mL: As, Tl 50 μg/mL: Cd, Se 30 μg/mL: Pb	125 mL	N9300221

Instrument Calibration Standards for CLP

Matrix	Content	Volume	Part No.
Instrument Check	Standard 1		
2% HNO ₃ / trace Tartaric Acid/ trace HF	10 μg/mL: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn	125 mL	N9303821
Instrument Check	Standard 3		
2% HNO ₃	200 μg/mL: Ca, Fe, K, Mg, Na	125 mL	N9303822
Instrument Check Standard 5			
2% HNO ₃ /trace HF	10 μg/mL: Mo, Sn, Sr, Ti	125 mL	N9303824



Interference Check Standards

Matrix	Content	Volume	Part No.
Interference Che	ck Standard 1		
H ₂ O/trace HNO ₃ / 0.6% Tartaric Acid	1,000 μg/mL: Sb	125 mL	N9300207
Interferents A			
5% HNO ₃	5,000 μg/mL: Al, Ca, Mg 2,000 μg/mL: Fe	500 mL	N9300226
Alternate Interfe	rents A		
5% HNO₃	1,000 $\mu g/mL$: Cr, Cu, Mn, Ni, Ti, V	500 mL	N9300228
Analytes B			
5% HNO ₃ / trace Tartaric Acid/ trace HF	100 μg/mL: Cd, Ni, Zn 60 μg/mL: Sb 50 μg/mL: Ba, Be, Co, Cr, Cu, Mn, V 20 μg/mL: Ag 10 μg/mL: As, Tl 5 μg/mL: Pb, Se	125 mL	N9300227
Alternate Analyte	es B		
5% HNO ₃ / trace Tartaric Acid/ trace HF	100 µg/mL: Al, As, B, Mo, Na, Sb, Se, Tl 10 µg/mL: Ca, Fe, Mg, Si	125 mL	N9300229
Interference Che	ck Standards		
H ₂ O/trace HNO ₃ / 0.6% Tartaric Acid	1,000 μg/mL: Sb	500 mL	N9303797
Interference Che	ck Solution 1 (for SW-846 and	ILM 05.2)	
5% HNO ₃ /trace HF	10,000 µg/mL: Cl 2,000 µg/mL: С 1,000 µg/mL: Al, Ca, Fe, K, Mg, Na, P, S 20 µg/mL: Mo, Ti	125 mL	N9303828
Interference Che	ck Solution 2 (for SW-846)		
2% HNO ₃	10 μg/mL: Ag, As, Cd, Co, Cr, Cu, Mn, Ni, Zn	125 mL	N9303830
Analytes C (for IL	M 05.2)		
2% HNO ₃ / trace Tartaric Acid/ trace HF	2 μg/mL: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Hg*, Mn, Ni, Pb, Sb, Se, Tl, V, Zn	125 mL	N9303831

^{*}Supplied in separate bottle

Internal Standard Solutions

Matrix	Content	Volume	Part No.	
Multi-Element	Multi-Element Internal Standard			
2% HNO₃	10 μg/mL: Bi, Ho, In, Li6, Sc, Tb, Y	125 mL	N9303834	
Internal Standa	ard Mix			
5-10% HNO ₃	10 μg/mL: Bi, Ge, In, Li6, Sc, Tb, Y	125 mL	N9303832	
Internal Standa	ard Mix			
5-10% HNO ₃	10 μg/mL: Bi, Ge, In, Li6, Sc, Tb, Y	500 mL	N9303833	

Contract Required Detection Limits (CRDL)

Matrix	Content	Volume	Part No.
% HNO ₃ /	120 μg/mL: Sb	125 mL	N9300225
trace Tartaric Acid/	100 μg/mL: Co, V		
trace HF	80 μg/mL: Ni		
	50 μg/mL: Cu		
	40 μg/mL: Zn		
	30 μg/mL: Mn		
	20 μg/mL: Ag, As, Cr, Tl		
	10 μg/mL: Be, Cd, Se		
	6 μg/mL: Pb		

Isotope Standard

Matrix	Content	Volume	Part No.
Lithium 6 Standard			
2% HNO ₃	100 mg/L: Li6	125 mL	N9303955

Universal Data Calibration Standards Kit

Matrix	Content	Volume	Part No.
Solution Kit Includes 1 bottle	of each:		N9306225
5% HNO ₃	10 μg/mL: Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Sc, Tb, Th, Tm, Y, Yb	125 mL	N9303816
5% HNO ₃	10 µg/mL: Al, Ag, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg*, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn	125 mL	
10% HCl/ 1% HNO ₃	10 μg/mL: Au, Hf, Ir, Pd, Pt, Rh, Ru, Sb, Sn, Te	125 mL	
5% HNO ₃	10 μg/mL: Hg*	125 mL	
H ₂ O /trace HF/ trace HNO ₃	10 μg/mL: B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W, Zr	125 mL	

^{*}Supplied in separate bottle



Metallo-Organic Standards

PerkinElmer Metallo-Organic Standards provide a comprehensive solution to your application needs.

Our product offering includes:

- Single and multi-element standards for the analysis of wear metals and metal additives in oil
- Reference materials for used oil analysis of fuel, soot, water, acid number, base number or viscosity
- Sulfur standards made from polysulfide oil
- High purity matrix oils and solvents
- Proficiency testing standards with instant feedback

Each product is shipped with a comprehensive Certificate of Analysis. Our Metallo-Organic Standards have been designed to give you the confidence you need when analyzing difficult samples.

Single-Element, Metallo-Organic Standards

Element	Symbol	Matrix	Size	Part No.
Aluminum 1000 μg/g	Al	Hydrocarbon Oil	50 g	N9308200
Arsenic 1000 μg/g	As	Hydrocarbon Oil	50 g	N9308202
Boron 1000 μg/g	В	Hydrocarbon Oil	50 g	N9308206
Cadmium 1000 μg/g	Cd	Hydrocarbon Oil	50 g	N9308207
Calcium 1000 μg/g	Ca	Hydrocarbon Oil	50 g	N9308208
Chromium 1000 µg/g	Cr	Hydrocarbon Oil	50 g	N9308209
Cobalt 1000 μg/g	Со	Hydrocarbon Oil	50 g	N9308210
Copper 1000 μg/g	Cu	Hydrocarbon Oil	50 g	N9308211
Iron 1000 μg/g	Fe	Hydrocarbon Oil	50 g	N9308212
Lead 1000 μg/g	Pb	Hydrocarbon Oil	50 g	N9308214
Lithium 1000 μg/g	Li	Hydrocarbon Oil	50 g	N9308215
Magnesium 1000 μg/g	Mg	Hydrocarbon Oil	50 g	N9308216
Manganese 1000 μg/g	Mn	Hydrocarbon Oil	50 g	N9308217
Mercury 1000 μg/g	Hg	Hydrocarbon Oil	50 g	N9308218
Molybdenum 1000 μg/g	Мо	Hydrocarbon Oil	50 g	N9308219



Element	Symbol	Matrix	Size	Part No.
Nickel 1000 μg/g	Ni	Hydrocarbon Oil	50 g	N9308220
Phosphorus 1000 μg/g	Р	Hydrocarbon Oil	50 g	N9308221
Potassium 1000 μg/g	K	Hydrocarbon Oil	50 g	N9308222
Scandium 1000 μg/g	Sc	Hydrocarbon Oil	50 g	N9308223
Silicon 1000 μg/g	Si	Hydrocarbon Oil	50 g	N9308225
Sodium 1000 μg/g	Na	Hydrocarbon Oil	50 g	N9308227
Strontium 1000 µg/g	Sr	Hydrocarbon Oil	50 g	N9308228
Sulfur 10 µg/g	S	Hydrocarbon Oil	50 g	N9308229
Sulfur 100 μg/g	S	Hydrocarbon Oil	50 g	N9308230
Sulfur 1000 μg/g	S	Hydrocarbon Oil	50 g	N9308231
Tin 1000 μg/g	Sn	Hydrocarbon Oil	50 g	N9308233
Vanadium 1000 μg/g	V	Hydrocarbon Oil	50 g	N9308235
Yttrium 1000 μg/g	Υ	Hydrocarbon Oil	50 g	N9308236
Yttrium 5000 μg/g	Υ	Hydrocarbon Oil	50 g	N9308323
Zinc 1000 μg/g	Zn	Hydrocarbon Oil	50 g	N9308237

Lubricant Guide

For more information on our Lubricants consumables offering visit **www.PerkinElmer.com/lubricants.** You'll find everything from application notes to a comprehensive guide of consumables for all your Lubricants analysis needs.







V-21 Wear Metal Standards

Includes: Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Ti, V, Zn

Description	Matrix	Size	Part No.
V-21 Wear Metals Standard 10 μg/g	Hydrocarbon Oil	200 g	N9308301
V-21 Wear Metals Standard 100 μg/g	Hydrocarbon Oil	200 g	N9308307
V-21 Wear Metals Standard 500 μg/g	Hydrocarbon Oil	100 g	N9308310
V-21 Wear Metals Standard 900 μg/g	Hydrocarbon Oil	100 g	N9308312

V-21+K Wear Metal Standards

Includes: Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Ti, V, Zn

Description	Matrix	Size	Part No.
V-21+K Wear Metals Standard 10 μg/g	Hydrocarbon Oil	100 g	N9308355
V-21+K Wear Metals Standard 50 μg/g	Hydrocarbon Oil	100 g	N9308359
V-21+K Wear Metals Standard 50 μg/g	Hydrocarbon Oil	200 g	N9308360
V-21+K Wear Metals Standard 100 μg/g	Hydrocarbon Oil	100 g	N9308361
V-21+K Wear Metals Standard 100 μg/g	Hydrocarbon Oil	200 g	N9308362
V-21+K Wear Metals Standard 500 μg/g	Hydrocarbon Oil	100 g	N9308365
V-21+K Wear Metals Standard 500 μg/g	Hydrocarbon Oil	200 g	N9308366
V-21+K Wear Metals Standard 500 μg/g	Hydrocarbon Oil	400 g	N9308374
V-21+K Wear Metals Standard 900 μg/g	Hydrocarbon Oil	200 g	N9308368

Internal Standards

	Description	Matrix	Size	Part No.
Ī	Cobalt (Co) Internal Standard, 6%	Mineral Spirits	200 g	N0776107
Γ	Cobalt (Co) Internal Standard, 6%	Mineral Spirits	400 g	N9308334
Г	Cobalt (Co) Internal Standard, 5000 μg/g	Hydrocarbon Oil	50 g	N9308258
	Cobalt Sulfur-Free Metallo-Organic Concentrate: Co @ approx 3%	Hydrocarbon Oil	400 g	N9304168

V-23 Wear Metal Standards

Includes: Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Si, Sn, Ti, V, Zn

De	scription	Matrix	Size	Part No.
V-2	3 Wear Metals Standard 10 μg/g	Hydrocarbon Oil	100 g	N9308239
V-2	3 Wear Metals Standard 10 μg/g	Hydrocarbon Oil	200 g	N0776109
V-2	3 Wear Metals Standard 10 μg/g	Hydrocarbon Oil	400 g	N9308315
V-2	3 Wear Metals Standard 30 μg/g	Hydrocarbon Oil	100 g	N9308241
V-2	3 Wear Metals Standard 30 μg/g	Hydrocarbon Oil	400 g	N9308316
V-2	3 Wear Metals Standard 50 μg/g	Hydrocarbon Oil	100 g	N9308243
V-2	3 Wear Metals Standard 50 μg/g	Hydrocarbon Oil	200 g	N0776104
V-2	3 Wear Metals Standard 50 μg/g	Hydrocarbon Oil	400 g	N9308317
V-2	3 Wear Metals Standard 100 μg/g	Hydrocarbon Oil	100 g	N9308245
V-2	3 Wear Metals Standard 100 μg/g	Hydrocarbon Oil	200 g	N0776105
V-2	3 Wear Metals Standard 100 μg/g	Hydrocarbon Oil	400 g	N9308318
V-2	3 Wear Metals Standard 300 μg/g	Hydrocarbon Oil	100 g	N9308247
V-2	3 Wear Metals Standard 500 μg/g	Hydrocarbon Oil	100 g	N9308249
V-2	3 Wear Metals Standard 500 μg/g	Hydrocarbon Oil	200 g	N0776106
V-2	3 Wear Metals Standard 500 μg/g	Hydrocarbon Oil	400 g	N9308320
V-2	3 Wear Metals Standard 900 μg/g	Hydrocarbon Oil	100 g	N9308251
V-2	3 Wear Metals Standard 900 μg/g	Hydrocarbon Oil	200 g	N9308252
V-2	3 Wear Metals Standard 900 μg/g	Hydrocarbon Oil	400 g	N9308321

V-26 Wear Metal Standards

Includes: Ag, Al, B, Ba, Bi, Ca, Cd, Cr, Cu, Fe, In, Li, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Si, Sn, Ti, V, Zn

Description	Matrix	Size	Part No.
V-26 Wear Metals Standard 10 μg/g	Hydrocarbon Oil	100 g	N0776130
V-26 Wear Metals Standard 30 µg/g	Hydrocarbon Oil	100 g	N0776132
V-26 Wear Metals Standard 30 μg/g	Hydrocarbon Oil	200 g	N0776133
V-26 Wear Metals Standard 50 μg/g	Hydrocarbon Oil	100 g	N0776134
V-26 Wear Metals Standard 50 μg/g	Hydrocarbon Oil	200 g	N0776135
V-26 Wear Metals Standard 50 μg/g	Hydrocarbon Oil	400 g	N9308747
V-26 Wear Metals Standard 100 µg/g	Hydrocarbon Oil	100 g	N0776136
V-26 Wear Metals Standard 100 µg/g	Hydrocarbon Oil	100 g	N0776137
V-26 Wear Metals Standard 100 µg/g	Hydrocarbon Oil	400 g	N9308742
V-26 Wear Metals Standard 300 µg/g	Hydrocarbon Oil	100 g	N0776138
V-26 Wear Metals Standard 500 μg/g	Hydrocarbon Oil	100 g	N0776140
V-26 Wear Metals Standard 500 μg/g	Hydrocarbon Oil	200 g	N0776141
V-26 Wear Metals Standard 500 μg/g	Hydrocarbon Oil	400 g	N9308746
V-26 Wear Metals Standard 900 μg/g	Hydrocarbon Oil	100 g	N0776142

Metal Additive Standards

Description	Matrix	Size	Part No.
Metal Additive Standard 3: Ca @ 5000 μg/g; P, Zn @ 1600 μg/g	Hydrocarbon Oil	400 g	N9308552
Metal Additive Standard 4: Ca @ 5000 μg/g; Mg, P, Zn @ 1600 μg/g	Hydrocarbon Oil	100 g	N9308259
Metal Additive Standard 4: Ca @ 5000 μg/g; Mg, P, Zn @ 1600 μg/g	Hydrocarbon Oil	200 g	N0776108
Metal Additive Standard 4: Ca @ 5000 μg/g; Mg, P, Zn @ 1600 μg/g	Hydrocarbon Oil	400 g	N9308333



V-Solv™ ICP Solvent 1 Gallon

Matrix Oils and Solvents

Description	Matrix	Size	Part No.
Hydrocarbon Oil	75 cSt Oil	500 mL	N0776103
Hydrocarbon Oil	75 cSt Oil	1 Gal.	N9308262
Mineral Oil (low sulfur)	20 cSt Mineral O	il 500 mL	N9308263
Mineral Oil (low sulfur)	20 cSt Mineral O	il 1/2 Gal.	N9308264
V-Solv™ ICP Solvent	V-Solv™	1 Gal.	N9308265
V-Solv™ ICP Solvent	V-Solv™	5 Gal.	N9308378
Citrajet Liquid Acid Cleaner		1 Gal.	N0777063
V-Solv [™] + Cobalt ICP Solvent	V-Solv™	1 Gal.	N9308198
V-Solv™ + Cobalt ICP Solvent	V-Solv™	5 Gal.	N9308199

Acid Number Standards

Description	Matrix	Size	Part No.
Acid Number (AN) Reference Material, 0.1 mg KOH/g	Hydrocarbon Oil	100 g	N9308160
Acid Number (AN) Reference Material, 0.5 mg KOH/g	Hydrocarbon Oil	100 g	N9308166
Acid Number (AN) Reference Material, 1 mg KOH/g	Hydrocarbon Oil	100 g	N9308162
Acid Number (AN) Reference Material, 1.5 mg KOH/g	Hydrocarbon Oil	100 g	N9308164
Acid Number (AN) Reference Material, 3 mg KOH/g	Hydrocarbon Oil	50 g	N9308168
Acid Number (AN) Reference Material, 3 mg KOH/g	Hydrocarbon Oil	400 g	N9308169

Fuel Dilution Standards

Description	Matrix	Size	Part No.
100 μg/g Ethylene Glycol Standard	Multi-grade Diesel Engine Oil	80 mL	N9308388
500 μg/g Ethylene Glycol Standard	Multi-grade Diesel Engine Oil	80 mL	N9308389
600 μg/g Ethylene Glycol QC Standard	Multi-grade Diesel Engine Oil	80 mL	N9308398
1000 μg/g Ethylene Glycol Standard	Multi-grade Diesel Engine Oil	80 mL	N9308396
2000 μg/g Ethylene Glycol Standard	Multi-grade Diesel Engine Oil	80 mL	N9308397
Ethylene Glycol Standards Set	Multi-grade Diesel Engine Oil	6 x 80 mL	N9308399
Ethylene Glycol Standards Set	Multi-grade Diesel Engine Oil	80 mL	N9308379

Devolatilized Diesel Fuel Standards

Description	Matrix	Size	Part No.
2% w/w Devolatilized Diesel Fuel	75 cSt Hydrocarbon Oil	100 mL	N9308151
4% w/w Devolatilized Diesel Fuel	75 cSt Hydrocarbon Oil	100 mL	N9308152
5% w/w Devolatilized Diesel Fuel	75 cSt Hydrocarbon Oil	100 mL	N9308153
10% w/w Devolatilized Diesel Fuel	75 cSt Hydrocarbon Oil	100 mL	N9308154
Custom Fuel Dilution Std. 6% (w/w)	75 cSt Hydrocarbon Oil	100 mL	N9308155

Base Number Standards

Description	Matrix	Size	Part No.
Base Number (BN) Reference Material, 6 mg KOH/g	Hydrocarbon Oil	50 g	N9308554
Base Number (BN) Reference Material, 10 mg KOH/g	Hydrocarbon Oil	50 g	N9308555
Base Number (BN) Reference Material, 15 mg KOH/g	Hydrocarbon Oil	50 g	N9308174
Base Number (BN) Reference Material, 30 mg KOH/g	Hydrocarbon Oil	50 g	N9308176
Base Number (BN) Reference Material, 40 mg KOH/g	Hydrocarbon Oil	50 g	N9308178
Base Number Standard 30 mg KOH/g	Hydrocarbon Oil	50 g	N9308553





Dilution Oil

Karl Fischer Standards

Karl Fischer Standards

Nominal Water Concentration (%)	Matrix	Size	Part No.
Karl Fischer Water in Oil, 0.05%	10W30 Motor Oil	100 mL	N9308298
Karl Fischer Water in Oil, 0.1%	10W30 Motor Oil	100 mL	N9308279
Karl Fischer Water in Oil, 0.5%	10W30 Motor Oil	100 mL	N9308280
Karl Fischer Water in Oil, 1.0%	10W30 Motor Oil	100 mL	N9308281

Crackle Test Reference Standards

Description	Matrix	Size	Part No.
Crackle Test Reference Standard 0 wt% H ₂ O	10W30 Motor Oil	100 g	N9308337
Crackle Test Reference Standard 0.1 wt% H ₂ O	10W30 Motor Oil	100 g	N9308338
Crackle Test Reference Standard 0.5 wt% H ₂ O	10W30 Motor Oil	100 g	N9308339

OilExpress Standards

Description	Matrix	Size	Part No.
In-Service Lubricants FT-IR Control Standard	15W40 Diesel Oil	500 mL	N9308375
OilExpress 4 Test Oil 120 cSt	PAO Oils	500 mL	N9308351
OilExpress 4 Test Oil 360 cSt	PAO Oils	100 mL	N9308352
OilExpress 4 System Liquid Detergent Additive		100 mL	N9308354
OilExpress 4 System Liquid Detergent Additive		500 mL	N9308376
OilExpress 4 System Liquid Detergent Additive		1 Gal.	N9308380
Pathlength Calibration Fluid (Squalane)		50 mL	N9308377
OilExpress 4 Installation Kit (includes N9308350, N9308351, N9308352, N9308354, and N9308377)			N9300850

Viscosity Reference Standards

Description	Matrix	Size	Part No.
Viscosity Standard Reference Kit Kit includes: N5316001, N5316002, N5316003, N5316004, N5316005	Hydrocarbons	5 x 500 mL	N5316000

Biodiesel Standards

Description	Matrix	Size	Part No.
Biodiesel Blank	B100 Biodiesel	100 mL	N9308286
Biodiesel Blank	B100 Biodiesel	500 mL	N9308287
Sulfur @ 20 μg/g in Biodiesel	B100 Biodiesel	100 mL	N9308288
Metals in Biodiesel – Ca, K, Mg, Na, P @ 20 μg/g	B100 Biodiesel	100 g	N9308289
Multi-Element Biodiesel Standard 5 µg/g, Ca, K, Mg, Na, P	B100 Biodiesel	100 g	N9308726

Biodiesel Blends

Description	Matrix	Size	Part No.
100% High Cetane Diesel	High Cetane Diesel Fuel	20 mL	N9308290
2% (v/v) Biodiesel	High Cetane Diesel Fuel	20 mL	N9308291
5% (v/v) Biodiesel	High Cetane Diesel Fuel	20 mL	N9308292
10% (v/v) Biodiesel	High Cetane Diesel Fuel	20 mL	N9308293
15% (v/v) Biodiesel	High Cetane Diesel Fuel	20 mL	N9308294
20% (v/v) Biodiesel	High Cetane Diesel Fuel	20 mL	N9308295
100% (v/v) Biodiesel	B100 Biodiesel	20 mL	N9308296

Sulfur Standards

Description	Matrix	Size	Part No.
Polysulfide Oil Blank	13 cSt Mineral Oil	500 mL	N9308390
Sulfur @ 0 μg/g (Blank)	#2 Diesel Fuel	500 mL	N9308714
Sulfur @ 5 μg/g, from Polysulfide Oil	#2 Diesel Fuel	500 mL	N9308715
Sulfur @ 10 μg/g, from Polysulfide Oil	#2 Diesel Fuel	500 mL	N9308716
Sulfur @ 15 μg/g, from Polysulfide Oil	#2 Diesel Fuel	500 mL	N9308717
Sulfur @ 20 μg/g, from Polysulfide Oil	#2 Diesel Fuel	500 mL	N9308718
Sulfur @ 25 μg/g, from Polysulfide Oil	#2 Diesel Fuel	500 mL	N9308719
Sulfur @ 50 μg/g, from Polysulfide Oil	#2 Diesel Fuel	500 mL	N9308720
Sulfur @ 100 μg/g, from Polysulfide Oil	#2 Diesel Fuel	500 mL	N9308721

Detection Limit Calibration Standard

Description	Matrix	Size	Part No.
Detection Limits Calibration Standard: a, Mg @ 5 μg/g; La, Li, Mn, Ni, Sr, Zn @ 50 μg/g; As, K @ 250 μg/g	Hydrocarbon Oil	4 oz.	N9307102

Coolant Standards

Matrix	Content	Volume	Part No.
Custom Standar	d HI 1A		
3% HNO ₃ (v/v)	Al @ 10 µg/mL, Mg @ 20 µg/mL, Ca @ 32 µg/mL, Cu, Fe, Pb, Zn @ 50 µg/mL, B @ 1000 µg/mL, P @2000 µg/mL, K @ 5000 µg/mL, Na @10,000 µg/mL	500 mL	N9308341
Custom Standar	d QC 1A		
3% HNO ₃ (v/v)	Al, Cu @5 µg/mL, Mg @ 10 µg/mL, Zn @ 20 µg/mL, Fe, Pb @ 25 µg/mL, Ca @ 50 µg/mL, B @ 250 µg/mL, P @1000 µg/mL, K @ 2500 µg/mL, Na @ 5000 µg/mL	500 mL	N9308342
Custom Standar	d LO 1A		
3% HNO ₃ (v/v)	Al, Cu @ 2 μg/mL, Mg, Zn @ 4 μg/mL, Fe, @ 5 μg/mL, Ca, Pb@ 10 μg/mL, B @ 50 μg/mL, P @ 400 μg/mL, K, Na @ 1000 μg/mL	500 mL	N9308343
Custom Standar	d QC 1B		
3% HNO ₃ (v/v)/ trace HF	Sn @ 10 μg/mL, Si @ 30 μg/mL, Mo @ 50 μg/mL	500 mL	N9308344
Custom Standar	d LO 1B		
3% HNO ₃ (v/v)/ trace HF	Sn @ 5 μg/mL, Si @ 10 μg/mL, Mo @ 20 μg/mL	500 mL	N9308345
Custom Standar	d HI 1B		
3% HNO ₃ (v/v)/ trace HF	Sn @ 20 μg/mL, Mo, Si @ 100 μg/mL	500 mL	N9308346

Proficiency Testing Standards

Proficiency Testing Program

The Proficiency Testing Program offered by PerkinElmer has been designed to provide laboratories with a method of monitoring their analytical performance as measured against Certified Reference Materials (CRMs).



Proficiency Testing Standards

- 1. Analyze a sample
- 2. Report the results online
- 3. Receive an instant response to submitted values

Confirm the accuracy of your analytical results, quickly, easily and definitively.

Description	Size	Part No.
PTP Standard for Elemental Analysis of Oils	25 g	N9308314

Note: Analyze a sample for up to 23 common elements and report the concentrations in $\mu g/g$ (ppm). Enter all elements or only those that are of interest to you. Results are color-coded pass/fail indications in green (pass), yellow (borderline) and red (fail).

Description	Size	Part No.
Sample for Particle Count Analysis	125 mL	N9308725

Note: Particle count PTP test standards includes 8 channels (4,6,8,14,21,38, 50 and 70 μ m). One bottle for ISO 11171 only.

Description	Size	Part No.
Viscosity PTP Test Standard	50 mL	N9308540

Note: Report viscosity values in cSt at 40 °C, 100 °C, or both





Sample Preparation Blocks and Titan/MPS 320

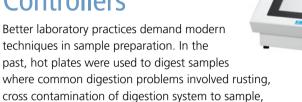
Sample preparation is one of the most critical steps in the analytical process. Often accounting for 60% of your timetable, it has a fundamental impact on laboratory throughput and analytical performance. Any errors within the sample preparation process will undermine the quality of your data at all subsequent stages of your analysis. At PerkinElmer, we provide you with a portfolio of sample preparation solutions that ensure sample preparation success

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Sample Preparation Blocks and Controllers







MPS 320

The MPS 320™ is a reliable and easy-to-operate microwave digestion system for PerkinElmer's AA, ICP-OES, and ICP-MS instruments that accommodates a wide range of sample matrices and applications. It provides the choice of closed-vessel digestion, a requirement for working

and poor sample temperature control.



with volatile elements, or unique, easy-to-use and highthroughput auto-venting vessels, which allow digestion to continue when preset pressure is reached.



Tubes and Vessels

PerkinElmer offers a complete selection of consumables and supplies for your Sample Preparation products.





Open Digestion

Ideal for: Liquid and solid samples in regulated industries.

Common Applications: water, soil and food testing.

Overview: Open vessel, atmospheric pressure digestion is a common approach to sample preparation for regulatory and compliance laboratories. With the ability to prepare large quantities of samples, open digestion is great for labs with modest digestion requirements that rely on high throughput. Hot block digestion using open vessels meets the regulatory requirements for sample extraction and a number of approved methods are in place to support this.

All PerkinElmer sample preparation blocks are manufactured under a certified ISO 9001: 2008 Quality Management System to meet our high quality requirements.

Upgrade from a Hot Plate: Better laboratory practices demand modern techniques in sample preparation. In the past, hot plates were used to digest samples where common digestion problems involved low throughput, dealing with fragile beakers, cleanliness of glassware, rusting and corrosion, cross contamination of digestion system to sample, loss of volatile elements and poor sample temperature control.





Sample Preparation Blocks

The SPB series of block digestion systems offers the latest in graphite block technology in many different packages. Graphite blocks are PTFE-coated to resist aggressive corrosive attack for quaranteed long life in harsh laboratory environments.

Our sample blocks operate with either a SPB Digital Controller or SPB Touch Controller*. Please select a controller below and the appropriate Start Up Kit* which includes RackLock DigiTUBE®s, disposable watch glasses, DigiFILTER™s and much more. Each SPB Block includes one set of racks.

Description	Capacity	Part No.
SPB 15-40, (115 V/230 V)	40 Tubes/15 mL	N9300800
SPB 15-108, (115 V/230 V)	108 Tubes/15 mL	N9300801
SPB 50-24, (115 V/230 V)	24 Tubes/50 mL	N9300802
SPB 100-12, (115 V/230 V)	12 Tubes/100 mL	N9300805
SPB 50-48, (115 V/230 V)	48 Tubes/50 mL	N9300803
SPB 100-30, (115 V/230 V)	30 Tubes/100 mL	N9300806
SPB 50-72, (230 V)	72 Tubes/50 mL	N9300804
SPB 100-42, (230 V)	42 Tubes/100 mL	N9300807





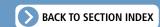
Controllers

The user friendly SPB Digital Controller includes programmable features such as: temperature set-point to 0.1 °C, even sample heating and evaporation results, timer shutdown option and programmable alarm for end of cycle.

The SPB Touch Controller includes all of the SPB Digital Controller features and more. Added features include: a graphical representation of the heating profile in real-time to identify the current stage of the method heating program. Safety features include the ability of the controller to monitor the heating cycle of the block to prevent run away situations. The controller allows for the SPB Probe to be calibrated to meet your SOP requirements.

The SPB Probe, used with either the Digital or Touch models, can directly monitor and control the block's heating rate via sample temperature feedback to the controller.

Description	Part No.
SPB Digital Controller	N9300808
SPB Touch Controller	N9300809





Start Up Kits

PerkinElmer's SPB Start Up kits contain all consumable items required to operate the system including: RackLock DigiTUBE®s and Caps, disposable Watch Glasses, DigiFILTER™s, RackLock Racks and Storage Racks.

Description	DigiTUBEs /Caps	Watch Glasses	Racks	Part No.
Start Up Kit for SPB 50-24	500	1000	1	N9308017
Start Up Kit for SPB 50-48	500	1000	2	N9308002
Start Up Kit for SPB 100-30	200	500	2	N9308013



Temperature Probes

Why use a thermometer to monitor and manually adjust sample temperature when a SPB Probe will automatically do the job? The SPB Probe provides direct control and monitoring of actual sample temperature via a corrosion-resistant, PFA-coated temperature probe. Available with different holders in a 6 in. configuration for use with 50 and 100 mL DigiTUBEs. Each probe is supplied with five Probe Watch Glasses and a probe holder.

Description	Qty.	Part No.
SPB Probe 6 in. for 50 mL Tubes	1	N9308018



Automatic Shut-Off System

Designed to shut-off SPB systems with no lab supervision. Ideal for overnight digestions and evaporations where samples require volume reductions (volume control ± 2.5 mL). Increase lab efficiency by automatically digesting samples off-hours. Select appropriate Probe for Tube use.

Description	Qty.	Part No.
TempSET, without Probe	1	N9300810



DigiFILTER

The vacuum assisted DigiFILTER assembly provides a quick and easy way to filter samples prior to analysis. Increase lab productivity by filtering particulates from digested samples in a matter of seconds directly from the digestion tube. Available with a 0.45 or 1.0 μ hydrophilic PTFE membrane. Field Filtration Kit conforms to Item 8.2 in the EPA 200.7, 200.8 and 200.9 Methods.

Description	Qty.	Part No.
DigiFILTER 0.45 micron for 50 mL DigiTUBEs	100	N9308031
DigiFILTER 1.0 micron for 50 mL DigiTUBEs	100	N9308032
DigiFILTER Manifold	1	N9308034

Tubes, Caps and Watch Glasses

PerkinElmer offers 50 and 100 mL, disposable, sample digestion tubes with easy-to-read graduations. Accurate 50 or 100 mL graduation is calibrated to meet Class A specifications to allow normalization directly in the tube. RackLock design allows for easy, one-handed closure of leak-free screw cap. All-in-one tubes eliminate the need for five separate vessels: Digestion beakers, volumetric flasks, graduated cylinders, autosampler tubes and storage containers.



DigiTUBEs

DigiTUBE	Dimensions (OD/ID)
15 mL	12 mm x 11 mm
50 mL	30 mm x 28 mm
100 mL	46 mm x 44 mm

Description	Qty.	Part No.
DigiTUBEs 15 mL with RackLock (incl. caps)	1620	N9308711
DigiTUBEs 15 mL with RackLock (incl. caps)	540	N9308713
DigiTUBEs 50 mL with RackLock (incl. caps)	750	N9308008
DigiTUBEs 50 mL non-RackLock (incl. caps)	750	N9308037
DigiTUBEs 50 mL with RackLock (no caps)	750	N9308340
DigiTUBEs 100 mL with RackLock (incl. caps)	300	N9308016
DigiTUBEs 100 mL non-RackLock (incl. caps)	300	N9308066
PTFE Digestion Tube 50 mL (incl. Blue caps)	6	N9308024





Description	Qty.	Part No.
Screw Caps, Orange, for 50 mL DigiTUBEs	250	N9308058
Screw Caps, Clear, for 50 mL DigiTUBEs	250	N9308060
PTFE Screw Cap for PTFE 50 mL Digestion Tube	6	N9308027

Watch Glasses





Description	Qty.	Part No.
Disposable Watch Glasses, 50 mL	1000	N9308003
Disposable Watch Glasses, 100 mL	500	N9308030

Fume Hoods and Accessories

The bench top fume hoods for SPB systems are the right choice for trace-metal digestions. Made from clear, acid resistant polycarbonate with a solid surface material base, the fume hood eliminates the risk of trace-metal contamination common with traditional fume hoods. HEPA® filters ensure clean input air. The fume hood can be connected to an in-house laboratory exhaust system or used with the SPB blower unit (N9308022). Fume hoods come flatpacked to save transport costs and can be assembled in minutes without tools.

Description	Part No.
Fume Hood II for Autosampler 23.5 in. D x 26 in. W x 25 in. H	N9308036
Vacuum Pump 17 L/min 230 V	N9308331



Part No.

Microwave Digestion

Ideal for: Difficult sample types and regulated laboratories.

Common Applications: Plant waste streams, alloys, pigments, simple and precious metal ores and heavy organic samples.

Overview: Microwave digestion provides high-performance, pressure digestion using sealed vessels to deliver complete sample digestion, allowing total elemental measurement. Able to digest difficult sample types quickly and completely, microwave digestion provides the most accurate sample preparation. Using ultra-clean sealed digestion vessels, the Titan/MPS 320 avoids loss of volatile analytes and prevents sample contamination from the working environment. With its high performance, microwave digestion is ideal for mining/geologic, environmental, petrochemical and pharmaceutical industries.

The MPS 320™ is a reliable and easy-to-operate microwave digestion system for PerkinElmer's AA, ICP-OES, and ICP-MS instruments that accommodates a wide range of sample matrices and applications.



- The choice of closed-vessel digestion, a requirement for working with volatile elements, or unique, easy-to-use and high-throughput auto-venting vessels, which allow digestion to continue when preset pressure is reached
- Four different rotor configurations to select from, depending on your needs
- State-of-the-art temperature/pressure control
- A variety of unique safety features

System Accessories

Description	Part No.
Exhaust Tube 1.5 m (one included with Titan)	N3134015
Titan/MPS 320 Bench 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 320 spares and accessories. Locking 4 in. diameter casters provide stability and easy movement. Dimensions: 32 in. D x 30 in. W x 29 in. H	N0777900









Accessories

Description	Part No.
PTFE 2 mL Sample Weighing Cup for Use in Standard 75 mL (40 Bar)	N3134009
or High Pressure 100 mL (100 Bar) Digestion Vessel, Qty. 1	



Vessels and Vessel Caps

Description	Qty.	Part No.
Standard 75 mL (40 Bar) Digestion Vessel with DPC (Complete) Includes: Pressure Seal, Vessel Cap with DPC, Rupture Disc and Vessel Base	1	N3132010
Standard 75 mL (40 Bar) Digestion Vessel without DPC. Includes: 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	1	N3132013
High Pressure 100 mL (100 Bar) Digestion Vessel without DPC (complete) Includes: 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) Includes: Pressure seal, Closure Cap with DPC, Rupture Disc, TFM Vessel Insert, Ceramic Pressure Jacket and Vessel Base	1	N3133013
High Pressure 100 mL (100 Bar) Digestion Vessel Base (base only)	1	N3133014
TFM DPC for High Pressure 100 mL (100 Bar) Digestion Vessels with Pressure Sensor	1	N3133016



Spares and Replacement Parts

Description	Part No.
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 or High Pressure Digestion Vessels	N3132004
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 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
TFM Sample Vessel Insert for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133009
Ceramic Pressure Jacket for High Pressure 100 mL (100 Bar) Digestion Vessel	N3133010
PEEK Ring Nut for High Pressure 100 mL (100 Bar) Digestion Vessel closure cap. (Left handed threads)	N3133011
Turntable Base Ring	N3134013

Gas Containment Manifold Spares

Description	Part No.
Lip Seal Ring of the Gas Containment Manifold. PTFE Sealing Ring for use with 8 and 16-Position Gas Containment Manifolds. Seals the top PFA gas tube to the Gas Containment Manifold	N3134000
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 1 m	N3134014



Part No. **N3132000**

Consumable Run Kits

Description	Part No.
Run Kit for Standard 75 mL (40 Bar) Digestion Vessels Consumables for Approximately 2500 Digestions with Standard 75 mL (40 Bar) Digestion Vessels Includes: 10 Pressure Seals (N3132002), 4 Rupture Discs (N3132001), 5 Lip Seal Rings of the Gas Containment Manifold (N3134000)	N3132000
Run Kit for High Pressure 100 mL (100 Bar) Digestion Vessels Consumables for Approximately 2500 Digestions with High Pressure 100 mL (100 Bar) Digestion Vessels Includes: 10 Pressure Seals (N3133023); 7 Rupture Discs (N3133022), 50 PEEK Ring Nuts (N3133011) 5 Lip Seal Rings of the Gas Containment Manifold (N3134000)	N3133024



Education Services to Help Accelerate Your Science



Invest in Instrument Training

You are under tremendous pressure to meet tight budget constraints while performing more experiments than ever. Due to these dynamics, instrument training can seem like a luxury versus a necessity, and important benefits can be overlooked.

Choose the Option That's Right for You:

Classroom Training

Conducted by faculty at PerkinElmer Centers of Excellence

- Courses ranging from the basics to advanced techniques
- Hands-on experience in a laboratory environment
- Peer networking and collaboration
- Small class size to ensure individual attention
- 1-5 day options

PerkinElmer Education Services enables you to:

- Keep your instrument running at peak performance with less downtime.
- Discover new instrument capabilities.
- Advance your knowledge base and skill set.
- Overcome the unique challenges of your application.

Basic Training: Operation Essentials

Conducted by a certified Service Engineer in your lab

- For the beginner to intermediate user
- Courses adapted to meet your lab's needs
- System overview and basic principles
- Hands-on training using your instruments
 - Operational techniques
- Instrument optimization/maintenance
- Software operations/data acquisition
- 1-3 day options;
 up to four users per session

Advanced: Optimization Training and Applications

Conducted by a specialized Field Application Scientist in your lab

- For the experienced user
- Courses designed to address your unique challenges
- Customized hands-on training
 - In-depth instrument and software operations
 - Method optimization
 - Application-specific, consultative training
- 1-5 day options; up to four users per session

For more information including custom training options:





PerkinElmer Instrument Service Contracts

Improve your instrument investment and avoid the high costs associated with instrument failure with a service plan. Unexpected instrument failure not only disrupts laboratory productivity, but can be expensive to fix. Choosing a service contract that provides breakdown coverage can help protect you from unexpected costs.

Regular preventive maintenance will help optimize your instrumentation, increasing the efficiency of your laboratory and extending the lifetime of your instrument. Consider combining your scheduled preventive maintenance with instrument qualification in a single visit to help minimize disruption to your laboratory.

We offer the most robust compliance solution in the industry. With our suite of qualification services covering many technologies, from a classical paper-based solution to a metrology-based approach, we can help your laboratory produce accurate and compliant results, day after day.deliver consistent digestion results.

- Ensure against the cost of unexpected instrument failure.
- Ensure optimum instrument performance.
- Control service costs.
- End users produce accurate and reproducible results.

Choose the Plan That's Right for your Laboratory

Platinum

For laboratories where instrument uptime is critical to performance. Includes a proactive alert system, for enabled instruments, that triggers corrective actions to help avoid equipment downtime and unnecessary expenses.

Gold

Enhance laboratory productivity by maintaining instrument efficiency with priority response, remote technical support and regular preventive maintenance.

Bronze

An excellent and cost-effective way to extend all the benefits of a first year instrument warranty.

Features	Bronze Plan	Gold Plan	Platinum Plan
Response Time ¹	Priority over Billable	Priority Response	Highest Level Priority
PerkinElmer Certified Repair Parts ²	✓	✓	✓
Travel To Your Location ³	✓	✓	✓
Emergency Breakdown Visits	✓	✓	✓
Preventive Maintenance Visits	N/A	1 or 2 PM visits	1 or 2 PM visits
Technical And Remote Support	✓	✓	✓
Software Updates ⁴	✓	✓	✓
Radian™ Remote Monitoring	✓	✓	✓
OPTIONS			
Premium Qualification Solutions	N/A	optional	optional
24 Hour Response Time ⁵	N/A	N/A	optional

^{1.} Priority response varies by region and is based on a 'best effort' basis. Please consult your local service engineers for additional information.

Visit www.perkinelmer.com/instrumentsservices

^{2.} Excludes all consumables. Certain parts may also be excluded based on instrument type. Please contact your local service engineer for details.

^{3.} Zone 1 travel is 100% included in all Service Plans. Travel outside Zone 1 may incur additional travel costs

^{4.} Software updates do not include software upgrades

^{5.} Only available to select Platinum Plan customers. Please consult your local service manager for availability and pricing.

Description	Part No.
Nebulizer Insert	00405087
Viton Tubing 1/8 Id	02506408
Tygon Black Tubing, 0.125 Id 1Ft/0.35M	02506515
Tygon Clear Tubing Per Foot, 0.3M	02506519
OrganIC Drain Tubing, 1Ft/0.35M	02506532
Tygon Tube, 0.250 Od X .031 Wall	02506534
Shipping Container Atomizer	03030957
Sample Tube Holder	03031804
O-Ring 1.42 Mm Id X 1.52	09200960
D2 Lamp - Milas - A510Ga	09201018
O-Ring 0.864 ld 0.070 Wd	09902218
Nitrous Oxide Hose Connector	09920223
Viton O-Ring, 4.47 X 1.78	B0045095
Apiezon Grease - Small PACket	B0059545
O-Ring 5,94 X 3,53 75 Shore	B0148651
Air Hose Assembly (Black)	B0154987
Burner ACcessories	B0155546
Red Connector	B0181354
Complete Quartz Pipe	B0193793
O-Ring 18.77 X 1.78	B0501250
Silicone Sleeve For Quartz Cell, Pkg. 4	B0505881
Cleaning Wire	B0505962
O-Ring 4.47 X 1.78	B0506143
Quartz Glass Optical Cell 2	B0507488
Filter For Mercury Analyzer, Pkg. 5	B0508567
Tygon Drain Tube, 1M	B0509650
FIMS Mercury Lamp	B0510487
FIAS Glanging Tool Kit	B3000001
Front Ferrule 2.45	B3001333
Back Ferrule 2.45	B3001334
Nut, 2.45 Mm	B3001335
Ir 1,000 Ppm 10% Hcl ICP50 mL	B3140391
Yellow Tags Pk Of 50	EDYELLOWTAGS
Deuterium Lamp Assy For AAnalyst 100/300	N0370119
Valve 5 Port A Service	N2010256
AAnalyst 200/400 Spares Kit	N2010540
HGA 900 Spares Kit	N2010541
AAnalyst 600 Spares Kit	N2010542
AAnalyst 700 Spares Kit	N2010543
AAnalyst 800 Spares Kit	N2010544
FIMS/FIAS 100/400 Spares Kit	N2010545
Sample Probe, 175 Mm, 80 Cm Capillary	N2024100
Rinse Line, 1.0Mm Id	N2024101
Nebulizer Line For High-Sensitivity Neb	N2024106
Tubing Assy-FAST Prepflame Ss Neb	N2024108
PTFE Sample Probe-0.55Mm I.D. L-150Cm	N2024133

Description	Part No.
Cable Assembly Encoder	N3050199
Lumina Hollow Cathode 2 Lamp - Al/Ca/Mg	N3050207
Lumina Hcl 2 Lamp Ag/Cr/Cu/Ni	N3050210
Lumina Hcl 2 Lamp Al/Cu/Fe/Ti	N3050211
Lumina Hcl 2 Lamp Co/Cu/Fe/Mn/Mo	N3050215
Lumina Hcl 2 Lamp Ag/Al/Cr/Cu/Fe/Mg	N3050216
ElectromagnetIC Doorlock	N3134042
Connecting Nipple For 75 mL Cap	N3134091
Titan Cord Europe C-19	N3135000
Titan Cord India C-19	N3135003
Titan Cord Uk C-19	N3135004
Titan Cord Australia C-19	N3135005
Titan Cord Brazil C-19	N3135008
Titan Cord Na C-19 (ReplACement)	N3135010
Vessel Complete Mr 85	N3136020
Cap Complete Mr 85	N3136021
	N3136021
Flat Sealing Mr 85 - 32 Pcs	100.0000
Flat Sealing Mr 85 - 16 Pcs	N3136023
Foot Mr 85	N3136024
Venting Tube PFA Mr 85 16 Pcs	N3136025
Supporting Ring Mr 85	N3136027
Digestion Vessel Mr50 W/Optical Sensor	N3136032
Digestion Vessel Mr50 W/O Optical Sensor	N3136033
Vessel Cpl Mr 100	N3136035
Vessel W/Optical Sensor Cpl Mr 100	N3136036
Vessel Bottom Mr 100	N3136037
Cap For Mr 100 Vessels	N3136038
Cap Mr 100 Vessels W/Optical Sensor	N3136039
Cap Insert W/ Optical Sensor Mr 100	N3136040
Fitting For Optical Sensor Caps Mr 100	N3136041
Glass-Ring Mr 100 W/Pressure Ctrl 8 Pcs	N3136043
Multi Tube Vessel Mr 100 10mL Grad 5mL	N3136046
Vessel Lifter For Multi Tube Sys Mr 100	N3136048
Evaporation Caps For Mr 100 Vessels	N3136050
Vent Sensor ReplACement	N3136059
Blind Plug For Hp 100 / Mr 100	N3136064
Turntable Ring Mr 100	N3136067
Oven Bottom Plate MPS 320	N3136068
Nut For Fume Collection System	N3136070
Rotor 16 Pressure Seal M/H 2724	N3141015
Rotor 16 Venting Screw 5692	N3141021
Multiwave 3000 Seal Holder X 10335	N3142351
Multiwave 3000 Protect Cas Vess X 11058	N3142352
Multiwave 3000 Cooling Blower 1772	N3142377
Auto Level For Multiwave 3000 25060	N3142552
PlastIC Ta Needle OrganIC Neb Assembly	N3160137
Fladare to recedic organic recompositiony	145 100 157

Description	Part No.
Flame Burner Assembly High Sens. Neb	N3160180
Flame Burner Assembly Ss Neb	N3160181
PlastIC OrganIC Nebulizer Assembly	N3160187
PinAAcle 500/900F Ss Neb Spares Kit	N3160520
PinAAcle 500/900F Hs Neb Spares Kit	N3160521
PinAAcle 900Z Spares Kit	N3160522
PinAAcle 900T Ss Neb Spares Kit	N3160523
PinAAcle 900T Hs Neb Spares Kit	N3160524
PinAAcle 900H Ss Neb Spares Kit	N3160525
PinAAcle 900H Hs Neb Spares Kit	N3160526
Water Tube Kit	N3160919
Fixed ACcessories - Tucson Kit 900F	N3160941
Slide Nut For PinAAcle	N3161034
Cadmium Cd Coded Hcl Lamp	N3300601
Lead Pb Coded Hcl Lamp	N3300602
Aluminum Al Atomax Coded Hcl Lamp	N3300603
Copper Cu Coded Hcl Lamp	N3300604
Nickel Ni Coded Hcl Lamp	N3300605
Chromium Cr Coded Hcl Lamp	N3300606
Zinc Zn Coded Hcl Lamp	N3300607
Sodium Na Coded Hcl Lamp	N3300608
Potassium K Coded Hcl Lamp	N3300609
Calcium Ca Coded Hcl Lamp	N3300610
MagnESlum Mg Coded Hcl Lamp	N3300611
Iron Fe Coded Hcl Lamp	N3300612
Manganese Mn Coded Hcl Lamp	N3300613
Mercury Hg Coded Hcl Lamp	N3300614
ArsenIC As Atomax Coded Hcl Lamp	N3300615
Barium Ba Atomax Coded Hcl Lamp	N3300616
Titanium Ti Coded Hcl Lamp	N3300621
Cd High Performance Hollow Cathode Lamp	N3300622
Silver Ag Atomax Coded Hcl Lamp	N3300623
Hp Hcl Lamp-Atomax As Coded Assy	N3300626
Lamp-Atomax Hollow Cathode Mo Coded Assy	N3300627
Bismuth Bi Coded Hcl Lamp	N3300628
Tin Sn Coded Hcl Lamp	N3300629
Lithium Li Coded Hcl Lamp	N3300630
Lamp- Atomax Hollow Cathode Ag	N3300653
Gold Au Coded Hcl Lamp	N3300662
Platinum Pt Coded Hcl Lamp	N3300664
Silicon Si Coded Hcl Lamp	N3300665
Selenium Se Coded Hcl Lamp	N3300666
Tin High Performance Hollow Cathode Lamp	N3300668
Sb High Performance Hollow Cathode Lamp	N3300670
Polypropylene Sample CUPS 2.5mL Pkg. 100	N3300740
Polypropylene Sample CUPS 7mL Pkg. 25	N3300741
GrapHite Guide Tool	N3302530

Description	Part No.
Autosampler Rinse Tube Outer	N3302833
FurnACe Autosampler Sample Capillary	N3302837
Flame Autosampler Sample Capillary	N3302838
PeristaltIC Pump Inner Tube	N3302841
HGA GrapHite Tubes With Int. Plat Pkg. 5	N3303508
HGA GrapHite Tubes With Int. Plat Pkg 10	N3303509
HGA GrapHite Tubes With Int. Plat Pkg. 3	N3303510
Heating Wire	N3303550
Burner Head Main Body	N3306712
Sampler Probe FurnACe	N3306721
Sampler Probe Flame	N3306722
PFA-St Nebulizer For PrepFAST	N8152576
Tygon 2375 Aa Drain Tubing Per 1Ft/0.3M	N9304640
Fep Drain Tubing For Aa Per 1Ft/0.3M	N9304641
Coded Lamp Cu - Copper	SSI1140108-1
Coded Lamp Ni - Nikel	SSI1140109-1
Coded Lamp Hg - Mercury	SSI1140111-1
Coded Lamp Mn - Manganese	SSI1140113-1
Coded Lamp Zn - Zinc	SSI1140114-1
Coded Lamp K - Potassium	SSI1140115-1
Coded Lamp Pb - Lead	SSI1140116-1
Coded Lamp Cd - Cadmium	SSI1140117-1
Coded Lamp As - Arsenic	SSI1140118-1
Coded Lamp Al - Aluminium	SSI1140120-1
Coded Lamp Sn - Tin	SSI1140121-1
Coded Lamp Mg - MagnESlum	SSI1140122-1
Coded Lamp Fe - Iron	SSI1140123-1
Coded Lamp Ca - Calcium	SSI1140124-1
Coded Lamp Ag - Silver	SSI1140125-1
Coded Lamp Se - Selenium	SSI1140127-1
Coded Lamp Na - Sodium	SSI1140129-1
Coded Lamp TI - Thallium	SSI1140131-1
Coded Lamp Cr - Chromium	SSI1140132-1
Coded Lamp Mo - Molybdenum	SSI1140136-1
Coded Lamp Ba - Barium	SSI1140138-1
Coded Lamp Be - Beryllium	SSI1140155-1
Coded Lamp Li - Lithium	SSI1140166-1
Hcl Lamp Boxed Ext Ti Sgm	SSI1140167
Hcl Lamp Boxed Ext Cs Sgm	SSI1140168
Knurled Screw M4*10	SSI2210322
Bpt Pipe, 3.2 * 1.6Mm/pHarmed Bpt	SSI3140016
Bpt Pipe, 1.02 * 0.85Mm/pHarmed Bpt	SSI3140017
Bpt Pipe, 2.06 * 0.85Mm/pHarmed Bpt	SSI3140018
Silicone Tube, Special Grade 2 * 1Mm	SSI3140019
Tube Pu6(Od)*4(Id) Sheer Tu0604C-100	SSI3140027
Bpt Pipe, 2.54 * 0.85Mm/pHarmed Bpt	SSI3140031
"PTFE Pipe, 008T25-150-20"	SSI3140033

Description	Part No.
Pipe Joint, 420/410	SSI3140039
Pipe Joint, N220	SSI3140040
Pipe Joint, B230	SSI3140041
Silicone Pipe, Special Grade , 3*1	SSI3140087
Type Wyt-A Mercury Quartz Tube	SSI7010104
Y-Joint	SSI7020001
Quartz Glass Of Hydride ReACtion Tube	SSI7220005
GrapHite Tube Hungkefei Platform	SSI8010023
GrapHite Tube Platform 5 Pieces / Box	SSI8010024
Air Filter ? 1.5 * ? 3 * ? 13	SSI8110005
Pipette 720020 5-50UI	SSI8270001
Pipette Nozzle 3800	SSI8270004
Sample Cup 7mL	SSI8270008
Sample Cup 1.5mL (? 13.5 * 24Mm)	SSI8270009
Aa Gmp Software U Disk	SSIGMP002
Small Nebulizer Gasket	00473194
Nameplate- Ftb Type B09	02113505
PlastIC Elbow Union 1/4 Tubing	09200001
O-Ring .801 ld X .070 Wd	09200065
Stator- 7-Port 1.0Mm Bore Kynar/Pvdf	09200808
O-Ring 0.799 Id 0.103 Wd Teflon	09210598
O-Ring 0.101ld X 0.070Wd Teflon Coated	09210635
O-Ring 0.344Id X 0.070Wd Teflon Coated	09210714
O-Ring 0.926 ld 0.070 Wd	09220178
Rotor- 6 Or 7-Port 1.0Mm Bore PTFE	09220585
ReplACement Filter Element	09220598
Union- 1/4 Tbq Brs	09903155
Union Tee, Swagelok Only	09903444
ReplACement Element Pre-Filter	09907122
Male Elbow 45 Degree 1/4 Npt Brs	09920590
O-Ring 1.421 ld 0.139 Wd	09921058
O-Ring Kit For Optima Adj. Torch	09931014
Solva Tubing 2.79 Mm Id	09985735
Ckt Breaker Series 15 A 250 VAC	09998164
OileXPRESS Fill Cup Tubing Kit	L1600350
OileXPRESS 4 Used Tip Drip Tray	L1610028
As-Cl9-2X 1000 Chloride/H2O	MY003644
Balston Air Filter	N0582250
Inner Tube Type Ii Spray Chamber	N0582258
Solvent Flex Tubing Kit, 2 mL/Mm, P40	N0680376
ICPOA Wavecal Test Mix 40z.	N0681581
LC/Cip Nebulizer End Cap Washer	N0681687
Quartz Torch 3-Slot 3000/Scr/3X00 Rl	N0681690
Quartz Torch 1-Slot 3000/Scr/3X00 Rl	N0690568
Quartz Torch 1-Slot 3X00 Dv	N0691662
Quartz Torch No Slot 3000/Scx/3X00 XI	N0695379
CyclonIC Spray Chamber Mount Kit	N0770131
Cyclonic Spray Chamber Would Kit	NU//UI31

Description	Part No.
Mass Flow Controller Supplies Kit	N0770388
Solution Kit For Avio 500	N0770395
Solution Kit For Avio 200	N0770396
Fresh Air Inlet Option Kit	N0770434
Spares Kit For 2000/4000	N0770439
Optima O-Ring Kit	N0770440
Optima 2X00/7000 Dv Spares Kit Aqueous	N0770750
Optima 2X00/7000 Dv Spares Kit Organics	N0770751
Optima 4/5/7000V Spares Kit	N0770752
Optima 4/5/7X00 Dv Spares Kit Aqueous	N0770753
Optima 4/5/7X00 Dv Spares Kit Organics	N0770754
Hydride Kit For Icp	N0770892
ReplACement Stator For High Flow Valve	N0771651
ReplACement Rotor For High Flow Valve	N0771652
Air Filter Passive	N0772058
Metal Ball Joint Clip With Tension Screw	N0773114
Drain Pump Tubing Kit For Oils	N0774084
Rinse/Drain Hookup Kit	N0774087
CetAC Thumbscrew And O-Ring Kit	N0774094
Injector Adapter	N0776024
Injector Locking Slide	N0776026
Spray Chamber Clip	N0776031
Air Filter For Polyscience Chiller	N0776081
ICPChiller Coolant Mix Pkg. 5	N0776099
T2100 Nebulizer 0.5 To 3.0 mL/Min	N0777033
VACuum Line For SC-FAST High Flow Valve	N0777047
White Plugs For 15 mL N0777071 Tubes	N0777072
1.0 mL Sample Loop (20 Seconds)	N0777081
Stirrer Paddle	N0777147
14 mL Round 16Mm X 100Mm, Qty. 250	N0777160
20 mL Round 21.5Mm X 100Mm, Qty. 500	N0777161
Fuel/Lube Rinse/Drain Kit, 84,1/8 Id	N0777171
Tygon Peripump Tubing Connection Kit	N0777173
Bottle 2 Rinse Container, 4 Liter	N0777259
Peripump Carrier Line, 0.5 Mm Id Orange	N0777296
PEEK Asx Probe Holder Screw Assembly	N0777422
Consumables Kit For SC-FAST/OneFAST	N0777432
Viton O-Ring For HF Spray Chamber Pkg 10	N0777450
Viton Drain Pump Tubing Connector Kit	N0777455
Brine / Cleanup Column	N0777470
15 mL Conical 17Mm X 120Mm W/Cap Qty. 60	N0777471
0.5 mL Sample Loop	N0777478
SCAutosampler Probe 1.0Mm Id Gray Mark	N0777482
Y Connector Kit Qty. 4	N0777558
75 Micron Filter Assembly With Pump	N0777559
Check Valve Kit Qty. 3	N0777560
Valve 6-Port With Stator For Aqueous	N0777575

Description	Part No.
ASXPRESS Fitting Kit	N0777579
VACuum Pump Flow Restrictor Line Oils	N0777592
Sample Loop Assembly Oils 1.02 mL	N0777594
Sample Loop Assembly Oils 1.36 mL	N0777597
Sample Loop Assembly Oils 1.48 mL	N0777598
Complete HF RESIstant Sample Intro Kit	N0777646
0.25 Mm Id Green DXI Version	N0777655
0.25 Mm Id DXI Internal Standard Tee	N0777662
PFA MicroFlow Nebulizer	N0777720
P7 FAST Valve For PrepFAST	N0777750
P7 FAST Valve Rotor PFA 1 Mm Bore	N0777751
Stator, CTFE For P7 Sample Valve	N0777752
Spares Kit Part For U5000A	N0777803
Viton O-Ring PACk, 11 Mm, Qty.10	N0777816
Small Female Luer To 2.4Mm Barb, Qty.10	N0777837
CTFE Ferrule Kit, Qty.10	N0777855
6-Port Valve Ring Clamp	N0777856
Neb. PFA Line Assembly W/Connector	N0777859
PFA Tubing Spare, 1.0 Mm/10 Ft	N0777860
Tygon Tubing Spare, 3/16/10 Ft	N0777862
Tee Connector Kit, 1/16 Barbed Tee	N0777867
Aerosol Spray Chamber Kit	N0777869
Hybridxlt Torch Organics Optima 8X00	N0780119
Optima 8000 Dv Spares Kit	N0780750
Optima 2X00/7000Dv Spares Kit Organics	N0780751
Optima 8000 Spares Kit Aqueous	N0780752
Optima 8000 Spares Kit Organics	N0780753
Univ. Spray Chamber Adapter For Hydride	N0782031
Hydride Quartz Generation Chamber	N0782032
Drain Tubing Tygon, Aqueous	N0782043
Drain Tubing Superthane, Oils	N0782045
Tubing 2X2Mm Id Tan, pHarmed, Black	N0782046
Tubing 2X2Mm Id Black, Viton, Black	N0782055
T Fitting Kit With Check Valve	N0782065
Drain And Rinse Tubing Hookup Kit Tygon	N0782077
Prep3 Sample Probe, Carbon Fiber P1	N0786025
Prep3 Internal STD Probe Carbon Fiber P3	N0786026
Prep3 Sample/Is/Diluent Tee, PFA	N0786028
Prep3 Blk-Blk Flared Tubing 0.76Mm Pkg12	N0786032
Prep3 Org-Grn Flared Tubing 0.38Mm Pkg12	N0786033
Sample Probe 150 Cm Capillary, 0.5Mm Id	N0786037
Prep 3 Grey-Grey Tubing 1.30Mm Pkg.12	N0786039
USB Key-Syngistix ICPDocuments	N0788003
Avio 200 Installation Kit	N0790432
Scott/Cross Flow Ii Spares Kit	N0790433
CyclonIC ConcentrIC Spares Kit	N0790434
Cyclonic/Conc Adj Injector O-Ring Kit	N0790436

Description	Part No.
Adj. Inj. Scott/Cross-Flow li O-Ring Kit	N0790438
Spray Chamber External Drain	N0790613
Avio 200 ConcentrIC Spares Kit	N0790805
Avio 200 Scott Spares Kit	N0790806
Nebulizer Liquid Fit 0.020" Idx0.062" Od	N0791018
Avio Shipping PACk	N0791214
Avio Torch Mount	N0791285
Quartz Injector 1.5 Mm For ESI Torches	N0791860
Avio HTS ACcessory Kit	N0810436
Avio 500 ConcentrIC Spares Kit	N0810850
Avio 500 Scott Spares Kit	N0810851
Avio 500 Organics Spares Kit	N0810886
Peripump Tubing Starter Kit	N0810916
FAST Deluxe Spares Kit For Avio 200/500	N0810917
Hepa Filter With Adapter Plate Dc Enc.	N0810920
Seal Kit For 10 mL Syringe	N0810925
Particle XPRESS Tubing Kit	N0810927
Consumables Kit For ASXPRESS Organics	N0810948
HDPE 1000 mL Bottle Solvent Port	N0811064
Glass Ball Joint Adapter	N0811235
Ziptorch Silicon Nitride Demountable	N0811913
Tubing Solvent Black/Black Flared 0.76	N0811914
HTS Tubing Kit For Avio	N0811934
Ziptorch Organics Demountable	N0811935
In-Line Sample Filter	N0811940
Carbon Fiber Sample Probe, 0.8 Mm Id	N0811953
Carbon Fiber Sample Probe, 1.0 Mm Id	N0811956
5 Position Standards RACk (Set Of 2)	N0811957
60 Position RACk/16Mm Metal Sample RACk	N0811959
2-Channel Pump Tubing Cartridge Viton	N0811961
Probe For Particle Applications	N0811963
Buffer Loop For Particle XPRESS	N0811986
Load/Inject HTS Valve 1.0 Mm Bore	N0812031
Carrier Tubing 120 Mm Port 4	N0812044
Sample Loop Fep 2.0 mL ld 1.0 Mm Hts	N0812051
Sample Loop Fep 3.0 mL ld 1.5 Mm Hts	N0812052
Sample Loop Fep 4 mL ld 1.5 Mm Hts	N0812053
S20 Series Organics Consumables Kit	N0830013
Ultra Clean Consumables Kit For S20	N0830017
Probe Fitting Kit For S20 Series	N0830022
60 Position RACk 5X12 /17 Mm Tube Od	N0830026
90 Position RACk 6X15 /13 Mm Tube Od	N0830027
21 Position RACk 3X7/28 Mm Tube Od	N0830028
Peripump Tubing pHarmx 2X2 Mm 1X3.2 Mm	N0831030
Peripump Tubing Id pHarmx 3.2Mm	N0831031
S20 Tygon Rinse And Waste Tubing Kit	N0831033
Retention Thumbscrews Z Tower Probe	N0831035

Description	Part No.
Tygon Fuel Tubing Rinse/Waste	N0831036
S20 Series Peripump Tygon Tubing	N0831039
S20 Series Viton Black Tubing	N0831040
Tygon Tubing Fep Lined 120"	N0831041
CyclonIC Spray Chamber O-Rings Pkg.10	N8120160
PEEK Solvent Filter	N8122249
PEEK In-Line Filter	N8122250
PEEK Anion Exchange 5¿M X 15Cm Column	N8122253
Prp-X100 Guard Column	N8122254
High Purity PFA Tubing 1.0Mm Id Grey	N8145245
Single Pump Rinse Lines And Tee	N8145405
Consumables Kit - NexION 2200/2200G	N8170105
Hyperskimmer Assy- Nickel No Plating	N8170140
Cobalt 10,000 μg/mL 5% HNO3 500 mL	N9300282
Trug Calibration STD Kit Epa 200.7	N9300297
Trug Calibration STD Kit Epa 200.8	N9300298
UV Wavelength Calibration Kit	N9304163
STD.1 Ug/mL Hg 0.7% HNO3/0.4% Hcl 125mL	N9304635
Visible Wavelength Calibration STD. 4Oz	N9307100
Stopcock, Polycarb Repl. Valve 12/Pk	N9308062
Karl Fischer Water In Oil, Blank -100mL	N9308278
SPB Adapter Female To Female	N9308385
Particle Count Calibration Fluid 100 mL	N9308731
Nitrite Standard No2 1000#G/mL, 500 mL	N9308740
Ultra Low Particulate V-Solv 5 Gal	N9308749
Ultra Low Particulate V-Solv + Co 5 Gal	N9308750
Particle Count Verification Fluid 100G	N9308753
Particle Count Verification Fluid 400G	N9308754
PTP Sample For Sulfur In #2 Diesel Fuel	N9308797
Air Purifier	Z32201
Positrap Sodasorb Rpl. Fltr Mol. Sieve	09201190
Teflon Coated O-Ring 0.239 ld X 0.070 Wd	09210011
Teflon Coated O-Ring 0.364 ld X 0.070 Wd	09210012
Hyper Skimmer O-Ring for NexION 5000	09211389
O-Ring 2.737ld 0.103Wd Viton Brown	09220338
O-Ring- 4.859ld 0.139Wd Viton Brown	09220341
O-Ring- 2.362Id 0.103Wd Viton Brown	09220342
High Pressure PEEK Ferrules 1/16 Inch	09220533
PTFE Tubing Per Foot 0.12 Od 0.085 Id	09220564
Ferrule	09903119
Teflon Back Ferrule, 1/4	09903120
Ferrule- Front 1/8 Sst	09903454
Ferrule- Back 1/8 Sst	09903455
Ferrule- Front 1/4 Sst	09903456
.250 Ss Hex Tubing Nut	09903464
Hyper Skimmer Screw for NexION	09919737
Silicone Purple/Wht Tubing 2.79Mm Pkg. 6	09923448

Description	Part No.
Edwards 45 VACuum Pump Oil, 1 L Bottle	09923492
O-Ring, 2.5 X 1.2	B0045472
Sample Loop For Ports 1 And 4, 1000¿L	N0777275
Sample Loop For Ports 1 And 4, 1 mL	N0777290
Quartz Injector In PFA Base, 1Mm Cassete	N0777410
D-Torch With CeramIC Outer Tube ELAN	N0777415
D-Torch Quartz Outer Tube	N0777420
0.8Mm Id Sample Loop Teflon, 2mL	N0777431
Quartz Injector PFA O-Ring, 2 Mm	N0777457
SeaSpray Nebulizer 0.4mL/Min	N0777484
Unifit Conn 1.3 Mm Od X .25 Mm Id Pkg.10	N0777514
2.5 mL Loop 0.8 Mm Id	N0777669
V9 PrepFAST Valve	N0777758
PrepFAST V9 Inlet Line Assembly	N0777764
Quartz Hyride Dual Spray Chamber	N0782014
Baffled Quartz CyclonIC Spray Chamber	N0791841
ESI Fixed Quartz Torch W/2 Mm Injector	N0811906
Rotor 16 Pressure Temperature Seal 2725	N3141016
Meinhard Type C Nebulizer 3.0mL/Min	N8102011
Torch Adapter O-Ring Support Kit ELAN	N8120100
Glass CyclonIC Spray Chamber Kit ELAN	N8120150
Sampler O-Rings For ELAN 6000, Pkg.5	N8120511
Skimmer O-Rings For ELAN 6000, Pkg.5	N8120512
Cross-Flow Nebulizer Tip Kit For ELAN	N8120515
Glass CyclonIC Sample Intro System Kit	N8120518
Test Solution Kit For ELAN 6100/9000	N8120522
ELAN DRC Solution Kit	N8120541
ELAN DRC Consumables Kit	N8120542
Metal Free Solvent Bottle Kit, Qty. 5	N8120550
ELAN DRC-E Spares Kit	N8120620
ELAN 9000 Spares Kit	N8120621
ELAN DRC-li Spares Kit	N8120622
Syringe Flush Kit	N8121035
Fg+ Gas Quick Connect For Meinhard Neb	N8121036
Fsd+ DetAChable Capillary (Standard)	N8121037
Duramist Nebulizer 0.4mL/Min ICP-MS	N8121046
Slurry U-Series Nebulizer	N8121059
Quartz Torch for ELAN/NexION	N8122006
Injector Support Adapter ELAN 5000	N8122007
Wash Solution 1% Hn03, 1 Liter	N8122038
Transducer Assembly For U-5000	N8122161
PFA-St ConcentrIC Nebulizer ELAN/NexION	N8122192
Fomblin Fluid Y 14/6 1 Kg	N8122265
Varian Roughing Pump Oil Gp	N8122308
Ds Exhaust Filter Kit	N8122329
PFA-100 Nebulizer 100¿L/Min	N8122351
CTFE Union	N8122355

Description	Part No.
Teflon Spray Chamber 47Mm	N8122356
Teflon SappHire Injector, 1.8 Mm	N8122358
Teflon Platinum Injector, 2 Mm	N8122359
UltrAClean Probe, 0.25 Mm Id	N8122360
UltrAClean Probe, 0.5 Mm Id	N8122361
PFA Tubing 0.15 Mm Id Red	N8122301
	N8122383
PFA Tubing 0.25 Mm Id	N8122384
PFA Tubing 0.5 Mm Id	
PFA/SappHire Injector Cassette, 1.8 Mm	N8122411
PFA/Platinum Injector Cassette, 2.0 Mm	N8122412
PFA/Quartz Injector Cassette, 1.5 Mm	N8122413
Silq Plus Ultra Nebulizer 0.5 mL	N8122460
Tq Plus Quartz Nebulizer 0.5 mL	N8122461
Tr Plus Glass Nebulizer 0.5 mL	N8122462
PFA MicroFlow High Solids Neb ICP-MS	N8122500
Dual Detector Solution For ELAN 6X00/900	N8125010
Quartz Injector 2.0 Mm Id	N8125029
Setup Stability Solution ELAN 6100/9000	N8125030
Detection Limit Solution ELAN 6100/9000	N8125031
DRC Wash Solution For ELAN 6100	N8125033
Sensitivity/Detection Limit Solution DRC	N8125034
ELAN DRC Setup/Stability/Masscal Sol.	N8125035
Methanol Blank Solution	N8125037
Cr Standard In Methanol Solution	N8125038
10 Ug/L Selenium In 0.5% HNO3, 250 mL	N8125039
Smarttune Standard Solution 1L	N8125040
ELAN DRC Smart Tune Solution 1L	N8125041
Improved Simulscan Dual-Stage Detector	N8125050
Single Cell Kit for NexION 350	N8140032
Single Cell NexION 350 Without Software	N8140061
Injector Adaptor kit for NexION	N8140360
Installation Kit for NexION S/D	N8140500
NexION Non-Cell Solution Kit	N8140503
NexION Cell Solution Kit	N8140504
NexION Torch Box Drain Assembly	N8140506
Consumables Kit For NexION 350 Q/X/D	N8140513
Injector Adapter Kit Complete NexION	N8140527
Hyperskimmer Kit	N8140533
TRUQ MS Calibration STD Kit ISO 17294	N8140581
NexION Spares Kit	N8140720
Speciation Installation Kit	N8140737
Speciation Kit HPLC P2	N8140739
Waste Bottle	N8141274
ELAC/NexION Organics Torch	N8141315
Spray Chamber Nut PFA 6Mm Short, Qty.1	N8141420
Threaded Drain Line	N8141425
PFA Spray Chamber With PFA End Cap	N8142000

Description	Part No.
PFA-SappHire HF-Res.Sample Intro Kit	N8142002
Hen Single Cell Nebulizer For NexION 350	N8142046
Leybold Roughing Pump Filter Kit	N8142190
NexION Zeolite Filter 1 Kg	N8142191
NexION Simulscan Dual-Stage Detector	N8145000
PFPE Fomblin Fluid Lvo 420, 1 L Bottle	N8145003
SV40BI Exhaust Filter Kit	N8145005
Quartz Type A Nebulizer 0.5mL/Min	N8145011
Glass Type C Nebulizer 0.5mL/Min	N8145012
Quartz CyclonIC Spray Chamber	N8145013
Glass CyclonIC Spray Chamber	N8145014
Drain CyclonIC SCFitting	N8145015
Nebulizer Liquid Fitting	N8145016
CTFE Male Barb Fitting	N8145017
CTFE Female Barb Fitting	N8145018
Metal Spill Tray For VACuum Pump	N8145022
Dual-Stage ICP-MS Detector	N8145027
NexION Platinum Sampler Special Apps	N8145028
NexION Fit Spec Verify Solution μg/L	N8145049
NexION Rinse Solution 250 mL	N8145050
NexION Setup Solution 1 Ug/L 500mL	N8145051
NexION Ked Setup Solution 250 mL	N8145052
NexION Non-Cell Stability Solution 500 M	N8145053
NexION Cell Stability Solution 500 mL	N8145054
NexION STDDRC Mode Det.Limit Blank 100mL	N8145055
NexION STD DRC Mode Det.Limit Sol.100 mL	N8145056
NexION Ked Mode Det. Limit Blank 100 mL	N8145057
NexION Ked STD Detection Limit Sol.100mL	N8145058
Solution — NexION Dual Detector	N8145059
NexION AFT Single-Element Solution 100 M	N8145060
AFT Multi-Element Solution 100 mL	N8145061
SeaFAST Preconcentration Column 200¿L	N8145073
SR3 MicroFlow PFA Nebulizer	N8145101
O-Ring Free Demountable Quartz Torch	N8145106
Platinum Injector 1.5Mm Cassette	N8145108
SappHire Injector 1.6Mm Cassette	N8145112
Quartz Injector 2 Mm O-Ring Free Cass	N8145116
Baff Cycl Glass Spray Chamb O-Ring Free	N8145119
Baff Cycl Quartz O-Ring-Free Spray Gas	N8145120
PFA Baffled CyclonIC Spray Gas Addition	N8145122
50 Ul/Min Self-Asp Capillary For St Neb	N8145135
200 Ul/Min Self-Asp Capillary For St Neb	N8145136
700 Ul/Min Self-Asp Capillary For St Neb	N8145137
1 mL/Min Self-Asp Capillary For St Neb	N8145138
Probe W/Carbon Fiber Supp S1, 0.25Mm Id	N8145139
Probe W/Carbon Fiber Supp S1, 0.50Mm Id	N8145140
PFA-100 MicroFlow Nebulizer, 100¿L/Min	N8145143

Description	Part No.
PFA-200 MicroFlow Nebulizer, 200; L/Min	N8145144
MP2 Pvc Org/Green Tubing 0.38Mm Pkg.12	N8145148
MP2 Pvc Grn/Yellow Tubing 0.44Mm Pkg.12	N8145149
MP2 Pvc Org/Yellow Tubing 0.51Mm Pkg.12	N8145150
MP2 Pvc Tubing Blk/Blk 0.76Mm Pkg.12	N8145153
MP2 Pvc Tubing Org/Org 0.89Mm Pkg.12	N8145154
MP2 Pvc Tubing Wht/Wht 1.02Mm Pkg.12	N8145156
MP2 Pvc Tubing Red/Red 1.14Mm Pkg.12	N8145158
MP2 Pvc Tubing Grey/Grey 1.30Mm Pkg.12	N8145160
MP2 Pvc Tubing Ye/Yellow 1.42Mm Pkg.12	N8145161
MP2 Pvc Tubing Ye/Blue 1.52Mm Pkg.12	N8145162
MP2 Pvc Tubing Blk/Wht 3.17Mm Pkg.12	N8145170
MP2 Santoprene Org/Grn 0.38Mm Pkg.12	N8145171
MP2 Santoprene Grey/Grey 1.30Mm Pkg.12	N8145173
MP2 Santoprene 1.52Mm Yellow/Blk Pkg.12	N8145174
MP2 Solvent Tubing 0.76Mm Blk/Blk Pkg.12	N8145176
MP2 Solvent Tubing 1.14Mm Red/Red Pkg.12	N8145181
MP2 Solvent Tubing 1.30Mm Gry/Gry Pkg.12	N8145183
MP2 Pvc Flared 0.19Mm Org/Red Pkg.12	N8145195
MP2 Pvc Flared 0.27Mm Org/Bl Pkg.12	N8145196
MP2 Pvc Flared 0.38Mm Org/Grn Pkg.12	N8145197
MP2 Pvc Flared 0.44Mm Grn/Ye Pkg.12	N8145198
MP2 Pvc Flared 0.51Mm Org/Ye Pkg.12	N8145199
MP2 Pvc Flared 0.64Mm Org/Wht Pkg.12	N8145201
MP2 Pvc Flared 0.76Mm Blk/Blk Pkg.12	N8145202
MP2 Pvc Flared 1.14Mm Red/Red Pkg.12	N8145207
MP2 Solv Flared 0.38Mm Org/Green Pkg.12	N8145211
MP2 Solv Flared 0.76Mm Blk/Black Pkg.12	N8145216
Fused Silica Obstruction Removal Kit	N8145236
1/16 Ferrule For 1/4-28 Pkg. 10	N8145237
1/8 Ferrule For HigHFlow Fitting Pkg.10	N8145238
High Purity PFA Tubing 0.25Mm Id Green	N8145241
High Purity PFA Tubing 0.50Mm ld Orange	N8145243
High Purity PFA Tubing 0.80Mm Id Blue	N8145244
Wm11Q3Urity PFA Tubing 1.6Mm Id Coil	N8145246
NexION Setup Solution 10Ug/L 500mL	N8145284
NexION Ked Setup Solution 10Mg/L 500 mL	N8145289
Quartz Cyclonic/Scott Dual Spray Chamber	N8145313
High Efficiency Quartz Torch For NexION	N8145318
Sampler Coneguard NexION	N8145319
Skimmer Coneguard NexION	N8145320
Spray Chamber Nut PFA 6Mm Long, Qty.1	N8145321
Gas Line Addition, 0.8Mm Id X 80Cm	N8145325
Capcell Pak 5U C18 Mg	N8145326
Internal Standard Probe, 0.5Mm Id	N8145344
Internal Standard Line For P7 Valve	N8145345
F2 FAST Valve Neb Line 14Cm, F0.25Mm	N8145346

Description	Part No.
F2 FAST Valve Neb Line 14Cm, F0 0.5Mm	N8145347
TrACe Metal Cleanup Column	N8145357
Online Mix Kit For Meinhard Plus Neb 0.5	N8145361
Glass Nebulizer Adapter	N8145365
ESI 2.5 Day Install/Train PrepFAST Na,We	N8145366
PFA-St Nebulizer For PrepFAST	N8145368
P6 High-Flow 6 Port Valve For SC-FAST	N8145370
P7 High-Flow 7 Port Valve For SC-FAST	N8145371
CTFE Stator For P6 Sample Valve	N8145378
CTFE Stator F/P7+ PrepFAST Sample Valve	N8145379
PFA Rotor For P7+ Valve	N8145384
V6 Syringe Loading Valve S200V PrepFAST	N8145387
CTFE Stator F/V12 Syringe Loading Valve	N8145391
PFA Rotor For V12 Syringe Loading Valve	N8145397
Ultra Pure NACI Solution 500 mL	N8145401
Quartz CyclonIC Chamber PC3 Lt	N8145402
High Matrix Torch For NexION 1 Ring	N8145450
Pearl Neb Cleaner For Glass/Qtz Nebs	N8145457
SeaFAST S-Series Buffer Solution, 1 L	N8145472
Glass CyclonIC Spray Chamber For AMS	N8145502
Sample Line W/Fit For Meinhard Plus Neb	N8145503
AMS Internal Standard Probe, 125 Mm	N8145504
Quartz Injector 2 Mm	N8145508
Internal Standard Tee For Meinhard Plus	N8145510
MicroFlow PFA-St Low Pressure Nebulizer	N8145530
PFA-St Nebulizer Gas Line	N8145531
Waste Line For SC-FAST	N8145536
Nebulizer Line Ext. 0.25Mm Id To 0.3M Id	N8145561
Quartz AMS Hydride Spray Chamber	N8145562
ICP-MS Filter Kit	N8146000
Combi (Moisture/Oxygen) Filter Only	N8146001
Icpms Filter Kit H2O Use N8146005 Filter	N8146004
Dual ICP-MS Filter H2O Use With N8146004	N8146005
Organics Sample Introduction Kit	N8150031
Single Cell Kit For NexION 2000	N8150032
Sample Intro Kit NexION 2000Platinum HF	N8150033
Kit- NexION 2000 Sample Intro Model B	N8150034
Sample Introduction Kit NexION 2000C	N8150035
Sample Introduction Kit NexION 2000P	N8150036
Sample Introduction Kit NexION 2000S	N8150037
Kit- NexION 1000 Sample Intro	N8150038
Geological Sample Introduction Kit (Gold	N8150040
NexION 2000 Consumables Kit B AMS	N8150052
NexION 2000 Consumables Kit B Config	N8150054
NexION 2000 Consumables Kit C Config NexION 2000 Consumables Kit P Config	N8150055
	N8150056
NexION 2000 Consumables Kit S Config	N8150057

Description	Part No.
NexION 1000 Consumables Kit	N8150058
NexION 2000 Peripump Starter Tubing Kit	N8150060
Single Cell Kit NexION 2000 W/O Software	N8150061
Tubing Assy. Clean Gas Inlet Vcr 5 Ft	N8150105
Tubing Assy. Clean Gas Inlet Vcr 10Ft	N8150110
HTS Tubing ACcessories Kit	N8150144
Autosampler Supplies	N8150145
Lumicoil For NexION 2000	N8150279
Filter Assy. Dual ICP-MS Moist H2O W/Vcr	N8150302
PrepFAST Line/Valve Assembly V12	N8150441
PFA Spray Chamber With PFA End Cap	N8150450
Consume/Spares Kit- PrepFAST NexION 2000	N8150452
Spray Chamber- PFA W/ Ext Connection	N8150454
	N8150488
FAST Deluxe Spares Kit NexION 1000/2000	N8150502
NexSAR Ship Kit NexSAR Consumables Kit	N8150502 N8150512
NexSAR 350 To 2000 Gas Adapter	N8150515
Torch- GC One Piece 2.0Mm Quartz	N8150534
NexION 2000B Spares Kit	N8150965
NexION 2000C Spares Kit	N8150966
NexION 2000P Spares Kit	N8150967
NexION 2000S Spares Kit	N8150968
Detector For NexION 1000/2000/5000	N8151011
Cold Plasma Optimization 250 mL	N8151032
NexION Cell Stability Sol. No Se 500 mL	N8151033
STD 30Nm Nanoparticle 25 mL	N8151034
STD 50Nm Nanoparticle 25 mL	N8151035
STD 100Nm Nanoparticle 25 mL	N8151036
AFT Single-Element Solution (H/He)	N8151037
AFT Multi-Element Solution (H/He)	N8151038
SeaSpray U-Series Nebulizer 0.4 mL/Min	N8151070
SeaSpray U-Series Nebulizer 2.0 mL/Min	N8151071
SeaSpray U-Series Quartz Neb 1.0 mL/Min	N8151072
Micromist U-Series Nebulizer 0.2 mL/Min	N8151074
Duramist Nebulizer 1 mL/Min	N8151078
Ratchet Nebulizer Connector	N8151079
Plat. Inj. Shield DiSCNexION 1000/2000	N8151106
Probe- FAST ParaboliC 1Mm Id 130Cm Long	N8151113
Instrument Filter (Right)	N8152136
Instrument Filter (Left)	N8152167
FAST 1 Valve With P7	N8152359
Meinhard Type Ct Q + Nebulizer	N8152372
Meinhard Type Ct R + Nebulizer	N8152373
Matrix Gas Line	N8152374
Glass CyclonIC Spray Chamber	N8152375
Quartz Demountable Injector 2 Mm	N8152376
Plasma Light Shield	N8152377

Description	Part No.
Type C PFA Nebulizer	N8152378
Demountable Quartz Torch Pvdf Oring Fre	N8152379
Quartz CyclonIC Spray Chamber W/Gas Port	N8152383
Ultrapure Quartz Low Volume Nebulizer	N8152384
6 Gas Line	N8152385
Meinhard Nebulizer Internal Standard Tee	N8152386
10-32 Union For Meinhard Plus Nebulizer	N8152387
Female Barb CTFE Fitting	N8152388
Glass CyclonIC Spray Chamber With AMS	N8152389
PFA Barrel Spray Chamber	N8152390
Orange/Red 0.19 Mm I.D. Pvc Pkg.12	N8152401
Orange/Blue 0.25 Mm I.D. Pvc Pkg.12	N8152402
Orange/Green 0.38 Mm I.D. Pvc Pkg.12	N8152403
Green/Yellow Pure 0.44 Mm I.D. Pkg. 12	N8152404
Orange/Yellow Pure 0.51 Mm I.D. Pkg.12	N8152405
Orange/White Pure 0.64 Mm I.D. Pkg.12	N8152406
Black/Black Pure 0.76 Mm I.D. Pkg.12	N8152407
Org/Red Solv Flex Flared 0.19 Mm Pkg.12	N8152408
Org/Green Solv Flex Flared 0.38 Mm Pkg12	N8152409
Grn/Yel Solv Flex Flared 0.44 Mm Pkg12	N8152410
Org/White Solv Flex Flared 0.64 Mm Pkg12	N8152411
Red/Red Solv Flex Flared 1.14 Mm Pkg.12	N8152413
Grey/Grey Santoprene 1.30 Mm ld Pkg.12	N8152415
PFA-200 PFA MicroFlow Nebulizer	N8152420
Internal Standards Kit For Meinhard Neb	N8152421
PFA-St Nebulizer Intern Standard Add Tee	N8152423
Uartz Spray Chamber- Silq Ultra Purity	N8152424
UV Light Shield For NexION 2000 B	N8152425
Gas Line Addition, 10 Metal Free	N8152426
Fixed 1.5 Mm Injector Quartz Torch	N8152427
Fixed 2.0 Mm Injector Uhp Quartz Torch	N8152428
2 Mm Platinum Demountable Injector	N8152429
Torch Cassette Blue	N8152430
Torch Cassette Green	N8152431
Torch Cassette Black	N8152433
Torch Cassette Platinum	N8152434
SMARTintro Module Blue W/Quartz Torch	N8152437
SMARTintro Module Black W/Quartz Torch Torch Injector Nut Removal Tool	N8152440
Torch Injector Nut Removal Tool	N8152443
Quartz Demountable Injector 1.0 Mm Quartz Demountable Injector 1.5 Mm	N8152444 N8152445
SappHire Demountable Injector 2.0 Mm	N8152447
Demountable Silq Torch	N8152447 N8152448
Addition Gas Line, 0.8Mm I.D	N8152448 N8152449
Torch Injector Nut	N8152449 N8152451
Internal Standards Probe	N8152452
Peripump Union Male	N8152453
. spsp omon maic	110132733

Description	Part No.
Sample Intro Line For PFA-St Nebulizer	N8152455
Threaded Spray Chamber Drain Line	N8152456
Instrument Filter - Back	N8152465
Fixed 2.0 Mm Injector Quartz Torch Blue	N8152472
Fixed 2.5 Mm Injector Quartz Torch Green	N8152473
Fixed 1.0Mm Inject. OrganIC Quartz Torch	N8152474
UV Light Shield PC3 NexION 2000 C,P,S	N8152475
Torch Viton O-Ring Kit	N8152476
PFA Lc MicroFlow Nebulizer	N8152477
Union Fittings For Lc To PFA Nebulizer	N8152478
LC Meinhard Nebulizer PEEK Connect Line	N8152484
Hen Nebulizer Sample Line	N8152489
Asperon Spray Chamber	N8152493
Spray Chamber Addition Gas Tee 1/8	N8152495
Hen Single Cell Nebulizer	N8152496
0.25 Mm Id Self-Aspirating Probe 80 Cm	N8152512
0.30 Mm Id Self-Aspirating Probe 80 Cm	N8152513
SMARTintro Module Gold With Quartz Torch	N8152535
SMARTintro Module Purple W/Quartz Torch	N8152536
Silq Spray Chamber With Matrix Gas Port	N8152539
2Dx/4Dx Rinse Lines 0.8 Mm Id	N8152544
CyclonIC Spray Chamber Adapter For Inj.	N8152551
PFA Nebulizer Gas Line For PFA-St Neb	N8152561
Internal Standards Kit For PFA St Neb.	N8152571
PFA-St Self-Aspirating Nebulizer	N8152575
PFA MicroFlow High Solids Nebulizer	N8152577
PFA-100 Nebulizer 100¿L/Min	N8152584
PFA-400 Nebulizer 400 L/Min	N8152586
PFA-100 PFA MicroFlow Nebulizer Carbon	N8152589
PFA-200 PFA MicroFlow Nebulizer Carbon	N8152590
PFA-20 PFA MicroFlow Nebulizer Ultem	N8152592
PFA-100 PFA MicroFlow Nebulizer Ultem	N8152594
Demountable Quartz Torch Organics	N8152596
Fixed 1.0 Mm Injector Silq Torch	N8152600
One Piece 1.5 Mm Silq Torch	N8152601
1.0 Mm Demountable Platinum Injector	N8152603
SappHire Demountable Injector 1.5 Mm	N8152606
Fixed 1.5 Mm Inj. Quartz Torch Organics	N8152616
Light Shield For Platinum Injector	N8152681
Light Shield For Quartz Injector	N8152682
Pergo 2000 Gas Line Conversion Kit	N8152683
Fixed 1.0 Mm Injector Quartz Torch	N8152699
Meinhard Plus PFA Capillary F2 Holder	N8152716
CTFE Port Plug 1/4-28	N8152718
Laser Connector For ESI Injector	N8152721
CTFE Syringe 6 mL	N8152756
Pre-Cleaned CTFE Syringe 6 mL	N8152757

Description	Part No.
Biocompatible Inert Sample Needle	N8152817
ReplACement Seals Aqueous Fluro Pkg. 10	N8152822
Check Valve ReplACement Capsules Pkg.10	N8152825
Filter Element- Outlet 5 Micron Pkg. 1	N8152829
Head Kit 10 mL PEEK 1/4-28 In 1/16 Out	N8152832
Seal Kit Ld12 Dual-Head Aqueous Fluoro	N8152833
Piston ReplACement PACk Pkg. 2	N8152834
Check Valve Kit PEEK 2 Inlet 2 Outlet	N8152835
Self Flush Assembly 12 mL	N8152836
Rotor Seal For Valco PEEK Injector	N8152861
500 Microliter Syringe	N8152864
Syringe Adapter Assembly	N8152878
Ez Grip Nuts 1/16 Inch PEEK Pkg. 10	N8152888
Ez Grip Ferrule 1/16 Inch PEEK Pkg. 10	N8152890
Inline StatIC Mixer 350 L PEEK Hi Press	N8152896
Waste Tubing, 1.5 Mm I.D.	N8152927
HTS Sample Loop, 1 mL	N8152929
HTS Sample Loop, 1.5 mL 1.0 Mm I.D.	N8152932
S10 Sample Probe 0.8 Mm Id	N8152935
HTS PTFE Rotor 0.75 Mm I.D.	N8152937
HTS CTFE Stator 0.75 Mm I.D.	N8152938
Torch Alignment Tool	N8157042
Sample Introduction Kit For NexION 5000	N8160020
NexION 5000 Consumables Kit	N8160027
NexION 5000 ICP-MS Solution Kit	N8160029
Sampler Skimmer Removal Tool For 5000	N8160118
Hyper Skimmer Cone Removal Tool For 5000	N8160119
Hyper Skimmer Cone For NexION 5000	N8160120
Torch Cassette White/Green	N8161009
SMARTintro Module Wh/Gr Silq Qrtz Torch	N8161013
Platinum Skimmer Cone For NexION 5000	N8161041
Skimmer- DrACo Ni M33 X 1.5	N8161117
Platinum Sampler Cone -12 Mm Pt Tip	N8161140
Setup Solution For NexION, 500 mL	N8162301
Stability Solution For NexION, 500 mL	N8162302
DRC Nh3 And STD Detection Limit 125 mL	N8162303
DRC 02 Detection Limit Solution 125 mL	N8162304
Dual Detector Solution NexION 5000 100mL	N8162305
Kit- Sample Intro NexION 2200	N8170020
Kit- Solution NexION Cell	N8170112
Ni Skimmer NexION 2200	N8171142
Pt Skimmer NexION 2200	N8171143
Green Coolant-GCt-Three 64 Fl.Oz Bottles	N8171229
Kit- NexION Single Use Sample Intro	N8990039
NexION 5000G Sample Introduction Kit	N8990040
Doc PACk- NexION 1000G_2000G Addnm Docs	N8990100
ICP-MS Calibration Standard 4 125 mL	N9300234

Description	Part No.
Silver 1000 µg/mL 2% HNO3 Pure Pls 125mL	N9303725
Aluminum 1000 µg/mL 2% HNO3 125mL	N9303726
As 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303727
Au 100 μg/mL 2% Hcl ICP-MS 125 mL	N9303728
Ba 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303729
Be 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303730
Bi 10 μg/mL 10% HNO3 ICP-MS 125 mL	N9303731
1% HNO3 In Astm Type I Water 125 mL	N9303732
Calcium 1000 µg/mL 2% HNO3 125mL	N9303733
Cd 1,000 µg/mL 2% HNO3 ICP-MS 125 mL	N9303734
Co 1,000 µg/mL 2% HNO3 ICP-MS 125 mL	N9303735
Chromium 1000 µg/mL 2% HNO3 125mL	N9303736
Cu 1,000 µg/mL 2% HNO3 ICP-MS 125 mL	N9303737
Fe 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303738
Ge 10 μg/mL H2O Tr.HF ICP-MS 125 mL	N9303739
Hg 1,000 μg/mL 10% HNO3 ICP-MS 125 mL	N9303740
In 10 μg/mL 2% HNO3 ICP-MS 125 mL	N9303741
K 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303742
Mg 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303743
Mn 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303744
Mo 1,000 μg/mL H2O ICP-MS 125 mL	N9303745
Na 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303746
Ni 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303747
STD - Lead 1000 μg/mL 125mL	N9303748
Rh 10 μg/mL 2% Hcl ICP-MS 125 mL	N9303749
Sb 1,000 μg/mL H2O/0.6%F ICP-MS 125 mL	N9303750
SC10 μg/mL 2% HNO3 ICP-MS 125 mL	N9303751
Se 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303752
Tb 10 μg/mL 2% HNO3 ICP-MS 125 mL	N9303753
Ti 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303754
Tl 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303755
V 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303756
Y 10 μg/mL 2% HNO3 ICP-MS 125 mL	N9303757
Zn 1,000 μg/mL 2% HNO3 ICP-MS 125 mL	N9303758
ICH Elemental Impurities Kit Oral	N9304361
ICH Class 1 Elements + Tl 125 mL	N9304362
ICH Class 2A Oral/Parenteral Pdes 125 mL	N9304363
ICH Class 2B Precious Metal 125 mL	N9304364
ICH Class 2B Se/Ag Oral 125 mL	N9304365
ICH Class 3 Elements Oral 125 mL	N9304366
Internal Standards - All Pdes 125 mL	N9304367
ICH Class 1 Elements + TI Pde 125 mL	N9304369
ICH Class 2B Se & Ag Par Pde 125 mL	N9304372
ICH Class 3 Elements Par Pdes 125 mL	N9304373
ICH Class 2B Precious Metal 125 mL	N9304382
Os 100 μg/mL 15% Hcl 125 mL	N9304383
Enviro STD Kit NexION STD Mode	N9307118

Description	Part No.
Internal Standard Mix 5%HNO3/Tr Hcl125mL	N9307738
Internal Stock Sol NexION STD Mode 125mL	N9308591
Internal Stock Sol. 2%HNO3 Ked/DRC 125mL	N9308592
High Efficiency Quartz Torch For ELAN	W1008384
Oring 3 8 Inch Id X 1 16 W Teflon	W1008572
Corrugated Teflon Hose, 1/40d X 12	W1009451
Ball Joint Cassette Torch Injector Adapt	W1012406
Injector Nut	W1012408
Injector SpACer	W1012409
Torch SpACer	W1012410
E9 Cassette Torch Mount Adapter	W1013266
Slide Mount Shadow Stop	W1013361
Teflon O-Ring 5/8 ld X 1/8 Wide	W1013545
Hose-Corrosion 1/4 ld X 6	W1013731
Torch Gas Nut	W1014443
O-Ring 7 8 Inch ld X 1 8 Inch W/Viton	W1017111
O-Ring 1/4 Inch ld X 1/16 W/Teflon	W1024319
Nickel Skimmer Cone For NexION	W1026356
Platinum Skimmer Cone For NexION	W1026907
Nickel Sampler Cone For NexION	W1033612
Platinum Sampler Cone For NexION	W1033614
Hyperskimmer Cone For NexION	W1033995
Spray Chamber Adapter	W1034558
NexION Cone Removal Tool	W1034694
ShAFT Coilbox Pot	W1036611
NexION Instrument Filter (Left)	W1036712
NexION Instrument Filter (Back Right)	W1036713
Teflontubing PFA .030 X .062 In Od 5Ft	W1037340
Adjustable Torch Mount Assembly	W1037485
Fitting 0.375 In Id Hose Barb X 0.89 Hi	W1038133
Gasket Sampler	W1040148
Teflon Union Tee 1/4	WE006589
O-Ring Sampler ELAN 6000	WE012687
Viton O-Ring 9/16 X 1/8W	WE013060
Coolant-1 Liter	WE016558
Series li lon Lens	WE018034
Rear Air Filter, Pump Side	WE021074
Nickel Skimmer Cone For ELAN	WE021137
Nickel Sampler Cone For ELAN	WE021140
RFLoad Coil Assembly	WE021816
Viton O-Ring, 6.234 ld X 0.139 W	WE022523
Viton O-Ring, 12.984 ldx 0.139 W	WE022524
ICP-MS Filter	WE022567
Quartz Ball Joint Injector 2.0 Mm Id	WE023948
Torch Adapter For ELAN DRC	WE023951
Meinhard Type A3 Nebulizer 3mL/Min	WE024371
Sample Uptake Tubing, 1/16 Od X 0.20Id	WE024375

Description	Part No.
CyclonIC Spray Chamber For ELAN DRC	WE025221
Hyper Skimmer Screw For NexION 1000/2000	WE027484
Platinum Sampler Cone For ELAN	WE027802
Platinum Skimmer Cone For ELAN	WE027803
White Teflon Tape, 1/4	WE029265
N20 Cable And Pin Assembly	00400275
Waste Trap And Drain Assembly	00470360
Nitrous Oxide Hose Assembly	00570566
Gas Contol Installation Kit	00570585
Bev-A-Line Tubing, 1/2 X 1/16	02506710
PEEK Tubing 0.040 ld X 0.06250 Od	02506711
Flow Meter	02901624
Analytical Methods AtomIC Spectroscopy	03030152
Air Compressor 200-240V 50Hz	03030314
High Air Flow Blower 115/208-230V 60Hz	03030449
Exhaust Hood	03031910
Blower Adapter	03031911
Grommet Edging-Panduit:Gee99-F-C	09210201
T-Handle Hex Screw Driver, 6.0 X 300	09210225
Pot Smt- DAC- 50K	09250286
Spring - Extsn 0.188 Od 1.000Fl	09902328
Set Scr-M4X12 Skt Hd	09919293
Male Fitting 10-32 To 1/16"	09920049
Tube Adapter	09920526
Male Connector 1/4 Npt 3/8 Tgb Brs	09920527
Shoulder Scr Hex 10-32 X 1 1/2 Lg Sst	09920606
Thumbscrew For N04011824, 2 Required	09920675
Recommended Conditions For THGA FurnACes	09935220
Diode Smt- Suppressor 1Sma10Cat3	09973647
IC Smt- D/A Conv Ad8803 8 Bit	09975160
Smt-Volt Supvsr Max705	09979107
Clamp- Cable Loop Type Nylon 0.33 Od	09984723
Union Nut Din8542	B0018078
Union Nut Din8542	B0018079
Sealing Disk	B0057334
Nut	B0057408
Teflon Spray - Box 300 mL	B0069029
Non-Zeeman Alignment Tool	B0080112
Silicon Tubing 4 X 1.5 Mm, 1M	B0082178
Flat Washer 5.25 X 16.0 X 0.35 Mm	B0083633
Capillary Tubing Ferrule Kit, 1.6 Mm	B0086142
Sample Container For Mhs-10	B0094139
Cover	B0094152
Non Zeeman ContACt Cylinder Removal Tool	B0098258
Mantle Assembly	B0102953
Waste Bottle	B0104987
Zeeman Tube Alignment Tool	B0120242

Description	Part No.
Insert For PlastIC Tube	B0147498
Safety Insert Din41662	B0155574
Cable	B0169385
Stuck Magnet Angle	B0184277
ACid RESIstant Valve R Stand	B0185176
200Mm PTFE Tube	B0191085
	B0193341
Large Hose Adapter Insulating Bush	B0193341 B0199476
Sample Tube, 15 mL/50 Off	B0500662
	B0500862 B0501397
Sample Tube, 50 mL,50 Off Dc/Dc-Wandler 48V/5V 5W (Obsolete)	B0501397 B0502119
	B0502140
Classing Tips, Plog 10	B0505368
Cleaning Tips, Pkg.10 Core THGA Cfl FurnACe	B0506690C
Peltier Cell Holder PTP	B0507184
Aluminium Foils	B0507164
	B0507654
Trough 8Pol Metal Digestion Loop, 10M	B0507634 B0508543
Driver L295	B0508343 B0509191
Cable For As-90/91	B0509311
	B0509311 B0510065
Spiral Cable 8 Pol. Axon	B0510063
Bus Cable IEEE-488 2M Lg.	
Complete Tower Bearing	B0510365
PlastIC Sample Tray, 40 Positions	B0510417 B0511240
Flat Cable 14 Wire 130 Long Connection Cable 3 Pol 1M	B0511298
	B0511298
Dn 15 Rupture Disk 72347	B0511530
PEEK Support Ring 100 mL ReACtion Vessel 74865	B0511530
	B0511532
CeramiC Support Vessel 74894	B0511533
Pressure Seal M, Pkg. 6 74866	
Safety Disk Type M 74057 Lamp For Multiwave 76489	B0511535
'	B0511673
PTFE Spray 72108 Power Cord-P500 24V	B0511680
Power Cord-P500 Switch	B0810546
	B0810547
Hexagonal Socket Wrench, 7Mm	B0853181 B09999AS
Special Part As	BOREPAA
Repair As	
Rinse Station For As90/91	B3000166
Closure Fixed ACcessories As800	B3001376
	B3001502
Wash Vessel	B3001512
Sample Trough	B3001513
Heating Mantle For Simaa 6000	B3001600
Input Valve Complete	B3002008
Valve 2 1.7/2.4/1.7 Yellow Marking	B3002094

F-Union Autoprep 50 B3002097	Description	Part No.
Pvc Tubing 8 X 1.5 B3002141 Connection Cable, 15-Position B3002201 Rinse-Cap/Glass Cyl. B3002216 Support Screw B3120062 Screw/Bolt Axle B3120292 Internal Tube For Fep L2050 B3120385 External Tube For Fep L2050 B3120386 Closed Tubing For Fep L1900 B3120387 Electrically Heated Cell Assy, 700/800 B3120387 Electrically Heated Cell Assy, 700/800 B3120420 Cover Plate B3120420 HGA FurmACe Sensors Cable Assembly B3120599 Cantilever Curtain B3120628 CPL Gripping Device B3120630 Adapter B312068 SpACe Sleeve B312068 SpACe Sleeve B312068 THGA Sensors Cable Assembly B3121022 Power Module G For M4200 B312113 Fuses For AAnalyst, Pkg. 1 B3121033 Drain Nipple B3121409 HGA FurnACe Gas Box B3130060 HGA-850 Cable B3130060 HGA-850 Cable B3140224 Spring Clamp <td></td> <td>B3002097</td>		B3002097
Rinse-Cap/Glass Cyl. Support Screw B3120062 Screw/Bolt Axle B3120292 Internal Tube For Fep L2050 B3120385 External Tube For Fep L2050 B3120386 Closed Tubing For Fep L1900 B3120387 Electrically Heated Cell Assy. 700/800 B3120390 Removal Tool B3120420 Cover Plate B3120490 HGA FurnACe Sensors Cable Assembly B3120628 CPL Gripping Device B3120630 Adapter B3120630 Adapter B3120630 SpACe Sleeve B3120680 FULGA Sensors Cable Assembly B3120620 Power Module G For M4200 B312113 Fuses For AAnalyst, Pkg. 1 B3121030 Drain Nipple B3121049 HGA-850 Cable B3130133 Diluent Feed Tube To Nebulizer B314022 Sampling Probe W/Capillary B3140224 Spring Clamp B3140224 Spring Clamp B3140244 Spring Clamp B3140358 Drip Tray B3140735 Core Burner Assembly For AAnalyst 200 B3150510C Holder With Screw BAASCREW Local Supply For Aa LOSUPAA Complete Burner Mount For AAnalyst Mount For Burner Chamber No401184 ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover ReplACement Assembly to N0690740 ReplACement Aspenbly Tube Assembly N0690740 ReplACement Aspenbly Tube Assembly N0690740 ReplACement Aspenbly 200 V N0777873 Ag Lumina Lamp Intensitron Adapter Cable N3050701 Ba Lumina Lamp Intensitron Adapter Cable N3050701 Ba Lumina Lamp Intensitron Adapter Cable N3050701		B3002141
Rinse-Cap/Glass Cyl. Support Screw B3120062 Screw/Bolt Axle B3120292 Internal Tube For Fep L2050 B3120385 External Tube For Fep L2050 B3120386 Closed Tubing For Fep L1900 B3120387 Electrically Heated Cell Assy. 700/800 B3120390 Removal Tool B3120420 Cover Plate B3120490 HGA FurnACe Sensors Cable Assembly B3120628 CPL Gripping Device B3120630 Adapter B3120630 Adapter B3120630 SpACe Sleeve B3120680 FULGA Sensors Cable Assembly B3120620 Power Module G For M4200 B312113 Fuses For AAnalyst, Pkg. 1 B3121030 Drain Nipple B3121049 HGA-850 Cable B3130133 Diluent Feed Tube To Nebulizer B314022 Sampling Probe W/Capillary B3140224 Spring Clamp B3140224 Spring Clamp B3140244 Spring Clamp B3140358 Drip Tray B3140735 Core Burner Assembly For AAnalyst 200 B3150510C Holder With Screw BAASCREW Local Supply For Aa LOSUPAA Complete Burner Mount For AAnalyst Mount For Burner Chamber No401184 ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover ReplACement Assembly to N0690740 ReplACement Aspenbly Tube Assembly N0690740 ReplACement Aspenbly Tube Assembly N0690740 ReplACement Aspenbly 200 V N0777873 Ag Lumina Lamp Intensitron Adapter Cable N3050701 Ba Lumina Lamp Intensitron Adapter Cable N3050701 Ba Lumina Lamp Intensitron Adapter Cable N3050701		B3002201
Support Screw Screw/Bolt Axle B312092 Internal Tube For Fep L2050 B3120385 External Tube For Fep L2050 B3120386 Closed Tubing For Fep L1900 B3120387 Electrically Heated Cell Assy. 700/800 B3120390 Removal Tool B3120420 Cover Plate B3120490 HGA FurnACe Sensors Cable Assembly B3120628 CPL Gripping Device B3120630 Adapter B3120620 B3120630 B3121030 Diluent Feed Tube To Nebulizer B3140226 Diluent Feed Tube To Nebulizer B3140227 Sampling Probe W/Capillary B3140224 Spring Clamp B3140224 Spring Clamp B3140235 B3140244 Spring Clamp B3140358 Drip Tray B3140735 Core Burner Assembly For AAnalyst 200 B3150510C Holder With Screw BAASCREW Local Supply For Aa LOSUPAA Complete Burner Mount For AAnalyst N0400155 Mount For Burner Chamber N0401184 USE N0690339 Driver Assy, RFGen. Scr N0690649 Shear Gas Supply Tube Assembly N0690740 ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover N020045 GEAR-AS900 Short Bevel N0201082 USB Cable 3M Autosampler Communication N2024190 Coded Adapter AAnalyst N3050196 Non-Coded Cableless Adapter N3050707 Ba Lumina Lamp Intensitron Adapter Cable N3050707	,	B3002216
Screw/Bolt Axle Internal Tube For Fep L2050 B3120385 External Tube For Fep L2050 B3120386 Closed Tubing For Fep L1900 B3120387 Electrically Heated Cell Assy. 700/800 Removal Tool B3120420 Cover Plate B3120490 HGA FurnACe Sensors Cable Assembly B3120599 Cantilever Curtain B3120628 CPL Gripping Device B3120630 Adapter B3120688 SpACe Sleeve B3120680 FHGA Sensors Cable Assembly B312022 Power Module G For M4200 B3121133 Fuses For AAnalyst, Pkg. 1 B3121303 Drain Nipple B3121409 HGA-850 Cable B3130133 Diluent Feed Tube To Nebulizer B3140226 Diluent Feed Tube To Nebulizer B3140227 Sampling Probe W/Capillary B3140227 Sampling Probe W/Capillary B3140345 Spring Clamp B3140345 Nore Burner Assembly For AAnalyst 200 B3150510C Holder With Screw Local Supply For Aa Complete Burner Mount For AAnalyst Mount For Burner Chamber USE N0690339 Driver Assy. RFGen. Scr N0690649 Shear Gas Supply Tube Assembly N0690740 ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover N202045 Ag Lumina Lamp Intensitron Adapter Cable N3050714 Lumina Lamp Intensitron Adapter Cable N3050711		B3120062
External Tube For Fep L2050 External Tube For Fep L2050 External Tube For Fep L2050 Esternal Tube For Fep L2050 Electrically Heated Cell Assy. 700/800 Removal Tool B3120390 Removal Tool B3120420 Cover Plate B3120490 HGA FurnAce Sensors Cable Assembly B3120599 Cantilever Curtain B3120628 CPL Gripping Device B3120630 Adapter B3120688 SpACe Sleeve B3120680 THGA Sensors Cable Assembly B3121022 Power Module G For M4200 B3121133 Fuses For AAnalyst, Pkg. 1 B3121303 Drain Nipple B3121409 HGA-850 Cable B3330060 HGA-850 Cable B3310033 Diluent Feed Tube Top B3140226 Diluent Feed Tube To Nebulizer B3140227 Sampling Probe W/Capillary B3140244 Spring Clamp B3140244 Spring Clamp B3140358 Drip Tray B3140735 Core Burner Assembly For AAnalyst 200 B3150510C Holder With Screw BAASCREW Local Supply For Aa Complete Burner Mount For AAnalyst No400055 Mount For Burner Chamber No401184 USE N0690339 Driver Assy. RFGen. Scr N0690649 Shear Gas Supply Tube Assembly ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover Speace Speace Ray Supply Tube Assembly ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover N2020045 GEAR-AS900 Short Bevel USB Cable 3M Autosampler Communication N2024190 Coded Adapter AAnalyst N3050196 Non-Coded Cableless Adapter Ag Lumina Lamp Intensitron Adapter Cable N3050701 Ba Lumina Lamp Intensitron Adapter Cable N3050701 Bi Lumina Lamp Intensitron Adapter Cable N3050711		
External Tube For Fep L2050 Closed Tubing For Fep L1900 B3120387 Electrically Heated Cell Assy. 700/800 Removal Tool B3120420 Cover Plate B3120490 HGA FurnACe Sensors Cable Assembly B3120599 Cantilever Curtain B3120628 CPL Gripping Device B3120630 Adapter B3120688 SpACe Sleeve B3120689 THGA Sensors Cable Assembly B3121022 Power Module G For M4200 B3121131 Fuses For AAnalyst, Pkg. 1 B3121409 HGA-850 Cable B3130060 HGA-850 Cable Diluent Feed Tube To Nebulizer B3140227 Sampling Probe W/Capillary B3140227 Sampling Probe W/Capillary B3140227 Sampling Probe W/Capillary B3140235 Drip Tray B3140735 Core Burner Assembly For AAnalyst 200 B3150510C Holder With Screw BAASCREW Local Supply For Aa Complete Burner Mount For AAnalyst No400055 Mount For Burner Chamber No401184 USE N0690339 Driver Assy. RFGen. Scr N0690649 Shear Gas Supply Tube Assembly ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover N2020045 GEAR-AS900 Short Bevel USB Cable 3N Autosampler Communication N2024190 Coded Adapter AAnalyst N3050196 Non-Coded Cableless Adapter Au Lumina Lamp Intensitron Adapter Cable N3050701 B1 Lumina Lamp Intensitron Adapter Cable N3050714		
Closed Tubing For Fep L1900 B3120387 Electrically Heated Cell Assy. 700/800 Removal Tool Removal Tool B3120420 Cover Plate B3120490 HGA FurnAce Sensors Cable Assembly B3120599 Cantilever Curtain B3120628 CPL Gripping Device B3120630 Adapter B3120688 SpACe Sleeve B3120896 THGA Sensors Cable Assembly B312022 Power Module G For M4200 B3121213 Fuses For AAnalyst, Pkg. 1 B3121303 Drain Nipple B3121409 HGA-850 Cable B313003 Diluent Feed Tube To Nebulizer B3140226 Diluent Feed Tube To Nebulizer Sampling Probe W/Capillary B3140227 Sampling Probe W/Capillary B3140224 Spring Clamp B3140224 Spring Clamp B3140735 Core Burner Assembly For AAnalyst 200 B3150510C Holder With Screw BAASCREW Local Supply For Aa Complete Burner Mount For AAnalyst No400055 Mount For Burner Chamber USE N0690339 Driver Assy. RFGen. Scr N0690649 Shear Gas Supply Tube Assembly N0690740 ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover N2020045 GEAR-AS900 Short Bevel USB Cable 3M Autosampler Communication N2024190 Coded Adapter AAnalyst N0-Coded Cableless Adapter Non-Coded Cableless Adapter Non-Coded Cableless Adapter Non-Coded Cableless Adapter Non-Coded Cableless Adapter Cable N3050707 Ba Lumina Lamp Intensitron Adapter Cable N3050711 Ca Lumina Lamp Intensitron Adapter Cable N3050711 Ca Lumina Lamp Intensitron Adapter Cable N3050711	·	
Electrically Heated Cell Assy. 700/800 Removal Tool Removal Tool Ball 20420 Cover Plate Ball 20490 HGA FurnACe Sensors Cable Assembly Ball 20599 Cantilever Curtain Ball 20628 CPL Gripping Device Ball 20630 Adapter Ball 20688 SpACe Sleeve Ball 20688 SpACe Sleeve Ball 20689 THGA Sensors Cable Assembly Ball 21022 Power Module G For M4200 Ball 21213 Fuses For AAnalyst, Pkg. 1 Ball 21303 Drain Nipple Ball 21409 HGA FurnACe Gas Box Ball 3030 Diluent Feed Tube Top Ball 40227 Sampling Probe W/Capillary Ball 40227 Sampling Probe W/Capillary Ball 40227 Sampling Probe W/Capillary Ball 40735 Core Burner Assembly For AAnalyst 200 Ball 305010 Holder With Screw BAASCREW Local Supply For Aa Complete Burner Mount For AAnalyst No400055 Mount For Burner Chamber No401184 USE N0690339 Driver Assy. RFGen. Scr N0690649 Shear Gas Supply Tube Assembly ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover N2020045 GEAR-AS900 Short Bevel USB Cable 3M Autosampler Communication N2024190 Coded Adapter AAnalyst Non-Coded Cableless Adapter Non-Coded Cableless Adapter Non-Coded Cableless Adapter Cable N3050702 Au Lumina Lamp Intensitron Adapter Cable N3050711 Ca Lumina Lamp Intensitron Adapter Cable N3050711	·	
Removal Tool B3120420 Cover Plate B3120490 HGA FurnACe Sensors Cable Assembly B3120599 Cantilever Curtain B3120628 CPL Gripping Device B3120630 Adapter B3120688 SpACe Sleeve B3120688 SpACe Sleeve B3120896 THGA Sensors Cable Assembly B3121022 Power Module G For M4200 B3121131 Fuses For AAnalyst, Pkg. 1 B3121303 Drain Nipple B3121409 HGA FurnACe Gas Box B3130060 HGA-850 Cable B3130133 Diluent Feed Tube Top B3140226 Diluent Feed Tube To Nebulizer B3140227 Sampling Probe W/Capillary B3140244 Spring Clamp B3140244 Spring Clamp B3140358 Drip Tray B3140735 Core Burner Assembly For AAnalyst 200 B3150510C Holder With Screw BAASCREW Local Supply For Aa LOSUPAA Complete Burner Mount For AAnalyst N0400055 Mount For Burner Chamber N0401184 USE N0690339 Driver Assy. RFGen. Scr N0690649 Shear Gas Supply Tube Assembly N0690740 ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover N2020045 GEAR-AS900 Short Bevel N2021082 USB Cable 3M Autosampler Communication N2021098 Ag Lumina Lamp Intensitron Adapter Cable N3050707 Ba Lumina Lamp Intensitron Adapter Cable N3050711 Ca Lumina Lamp Intensitron Adapter Cable N3050711 Ca Lumina Lamp Intensitron Adapter Cable N3050711	<u> </u>	
Cover Plate HGA FurnACe Sensors Cable Assembly B3120490 HGA FurnACe Sensors Cable Assembly B3120628 CPL Gripping Device B3120630 Adapter B3120688 SpACe Sleeve B3120896 THGA Sensors Cable Assembly B3121022 Power Module G For M4200 B3121213 Fuses For AAnalyst, Pkg. 1 B3121303 Drain Nipple B3121409 HGA FurnACe Gas Box B3130060 HGA-850 Cable B3130133 Diluent Feed Tube Top B3140226 Diluent Feed Tube Top B3140227 Sampling Probe W/Capillary B3140227 Sampling Probe W/Capillary B3140358 Drip Tray B3140735 Core Burner Assembly For AAnalyst 200 B3150510C Holder With Screw Local Supply For Aa Complete Burner Mount For AAnalyst N0400055 Mount For Burner Chamber N0401184 USE N0690339 Driver Assy. RFGen. Scr N0690649 Shear Gas Supply Tube Assembly ReplACement Assembly 220 V N0777873 S10 Autosampler Dust Cover N020045 GEAR-AS900 Short Bevel USB Cable 3M Autosampler Communication N2024190 Coded Adapter AAnalyst N3050196 Non-Coded Cableless Adapter N3050702 Au Lumina Lamp Intensitron Adapter Cable N3050707 Ba Lumina Lamp Intensitron Adapter Cable N3050711 Ca Lumina Lamp Intensitron Adapter Cable N3050711	· · ·	
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GEAR-AS900 Short Bevel USB Cable 3M Autosampler Communication Coded Adapter AAnalyst N3050196 Non-Coded Cableless Adapter Ag Lumina Lamp Intensitron Adapter Cable Au Lumina Lamp Intensitron Adapter Cable N3050707 Ba Lumina Lamp Intensitron Adapter Cable N3050709 Bi Lumina Lamp Intensitron Adapter Cable N3050711 Ca Lumina Lamp Intensitron Adapter Cable N3050714	ReplACement Assembly 220 V	N0777873
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Coded Adapter AAnalyst N3050196 Non-Coded Cableless Adapter N3050198 Ag Lumina Lamp Intensitron Adapter Cable N3050702 Au Lumina Lamp Intensitron Adapter Cable N3050707 Ba Lumina Lamp Intensitron Adapter Cable N3050709 Bi Lumina Lamp Intensitron Adapter Cable N3050711 Ca Lumina Lamp Intensitron Adapter Cable N3050714	GEAR-AS900 Short Bevel	N2021082
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Ca Lumina Lamp Intensitron Adapter Cable N3050714	Ba Lumina Lamp Intensitron Adapter Cable	N3050709
<u> </u>	Bi Lumina Lamp Intensitron Adapter Cable	N3050711
Cd Lumina Lamp Intensitron Adapter Cable N3050715	Ca Lumina Lamp Intensitron Adapter Cable	N3050714
	Cd Lumina Lamp Intensitron Adapter Cable	N3050715

Description	Part No.
Co Lumina Lamp Intensitron Adapter Cable	N3050718
Fe Lumina Lamp Intensitron Adapter Cable	N3050726
Mn Lumina Lamp Intensitron Adapter Cable	N3050745
Na Lumina Lamp Intensitron Adapter Cable	N3050748
Ni Lumina Lamp Intensitron Adapter Cable	N3050752
Pb Lumina Lamp Intensitron Adapter Cable	N3050757
Pd Lumina Lamp Intensitron Adapter Cable	N3050758
Re Lumina Lamp Intensitron Adapter Cable	N3050765
Sb Lumina Lamp Intensitron Adapter Cable	N3050770
Se Lumina Lamp Intensitron Adapter Cable	N3050772
Si Lumina Lamp Intensitron Adapter Cable	N3050773
Sn Lumina Lamp Intensitron Adapter Cable	N3050775
V Lumina Lamp Intensitron Adapter Cable	N3050786
W Lumina Lamp Intensitron Adapter Cable	N3050787
Lumina Lamp Intensitron Cable	N3050802
C/Fe/Ni Cable Lumina/Intensitron	N3050809
Co/Cr/Cu/Mn/Ni Cable Lumina/Intensitron	N3050817
Cd Hollow Cathode Lamp Lumina/Intens Cbl	N3050915
Titan Base System, 230 V 50/60 Hz	N3130120
Titan 8 Position Turntable	N3134074
Titan 16 Position Turntable	N3134075
Titan Cord Switzerland C-19	N3135001
Titan Cord Italy (Old) C-19	N3135002
In-Line Connector Titan 6-20R Na	N3135012
Buck And Boost Transformer (0.5 Kva)	N3135013
Turntable - MPS 320 Mr 85/32	N3136010
Turntable - MPS 320 Mr 85/16	N3136011
Turntable - MPS 320 Mr 50/16 1Dpc	N3136012
Turntable - MPS 320 Mr 50/16 16Dpc	N3136013
Turntable - MPS 320 Mr 100/8 1Dpc	N3136014
Turntable - MPS 320 Mr 100/8 8Dpc	N3136015
MPS 320 VACcum Pump 220V	N3136016
MPS 320 VACcum Pump 115V	N3136017
Triangular Scraper Mr 85	N3136026
Tool Torque Closure Mr 85	N3136028
Opening Equipment Mr 85	N3136029
Transportation RACk Mr 85 8 Pos	N3136030
Tray StACkable Mr 85 Turntable 16 Position MPS 320 50mL	N3136031
	N3136034
Tool Set For Optical Sensor Caps Mr 100 Enlarging Tool Insert For Hp 100/Mr 100	N3136042 N3136044
Enlarging Tool For Hp 100/Mr 100	N3136044 N3136045
Multi Tube Vessel System For Mr 100	N3136043
Evaporation Unit For Mr 100	N3136047
Angled Screw Coupling For Mr 100	N3136051
Adapter Ring For Mr 100	N3136052
Washing Bottle W/Lid Bulkhead Fittings	N3136053
	113 130033

Description	Part No.
Water Jet Pump	N3136056
Neutralization Unit	N3136057
Vent Sensor	N3136058
Wifi ACcess Point For MPS 320	N3136060
Transportation RACk Hp100/Mr100 Vessels	N3136061
RACK HP100/Mr100 Inserts 8 Pcs	N3136062
Weighing CUPS 2.5 mL 8 Pcs	N3136063
Control Unit For MPS 320	N3136065
Connection Cable 5M Control Unit MPS 320	N3136066
Fixation Screw For Lip Seal Ring	N3136069
Pressure Temperaure Tool For Rotor 16	N3141005
Sensor ACcy Multiwave 3000 Ir Temp 98984	N3141006
Usa Keyboard 6265	N3141010
Rotor 16 Body 4645	N3141026
Rotor 16 Tray 4647	N3141028
Rotor 16 Vessel Holder 4955	N3141030
Rotor 16 Vessel Holder Seal 7702	N3141031
Pressure Sensor ACcessory 14747	N3142418
Safety Module Solv 13831	N3142421
16-Position Vessel RACk 13686	N3142449
Pressure/Temperature Sensor M50 21290	N3142507
Calibration Unit (T/Ir) 26167	N3142550
Quick Change Mount Assembly For Aa200	N3150010
Hose Assy-pHoenix Air	N3150175
Hose Assembly	N3150176
Recirculating Cooling System Aa	N3160096
Hs Conversion Kit 900T	N3160160
Heated Cell Assy-Tucson 900T li	N3160289
Heated Cell Assy-Tucson 900Z li	N3160292
Assembly- Lamp Module	N3160729
Assembly- D2 Lamp Module	N3160731
Assembly- HGA FurnACe Module	N3160733
Assemby-Burner Door Service	N3160934
1.5 Inch Lamp Adaptor Kit	N3160954
Cover-Tucson Igniter	N3161021
Pcba- Tucson AS900 Microcontroller	N3169222
Fixed ACcessories - Mongoose Kit	N3180918
PinAAcle 500 Sample Tray	N3181248
Fanfold Paper 8 1/2 X 11	N5001409
InorganIC Mouse Pad	N9301369
Power Conditioner 3.8 Kva 60 Hz	N9306767
Power Conditioned UPS 10Kva	N9306768
Cims RACk For S20 Autosampler	N9306770
Online UPS Aa Plus li 5.2 Kva 50/60 Hz	N9306942
High Voltage Label	02113090
Tygon Tube, 7/16 ld X 1/16 Wall	02506533
Blank	02531650

Description	Part No.
Blank For N0691004	02531656
IC Smt- Controller Ethernet Lu82551Er	09270696
IC Smt Fpqa Xilinx Xc3042	09270700
IC Counter 74161 4 Bit Binary	09270701
Cable Assembly Rs232 9C	09290259
Laplink Gold 2008	09410044
Cable Modem Db9F To Db25M 6Ft	09410045
500 mL 16Oz. Polyprop Nat. Bot Qty. 12	09904869
Cap Scr M8 X55 Skt Hd Sst	09919248
Conespray Nebulizer Instructions	09936086
Low Flow Gemcone Instructions	09936087
Icp/Oes Instructions	09936225
Optima Solid State Generator Sheet	09936561
IC Smt-Pga Xcs10 1000 Gate	09977564
Eprom	09977567
IC Smt-Cpld 7354	09979347
IC-Sw Reg Pt6302	09979474
Cheese Head Screw M6X30 Din912	B0071229
Coil Alignment Gauge For Optima	B0810557
Coil Alignment Tool For Optima	B0810563
Bookp1000Conceps Obt Fr 1-Nq F	N0582325
Fiber OptIC Assembly	N0680175
RFCoil Assembly W/Bonnet, Plasma 40	N0680212
Lc/ICPTorch Window Retainer	N0681376
Plasma 40 Ignitor Rod	N0681438
Zod Input Module Assembly	N0690107
Grating Assembly Zod X Disp	N0690110
Adapter Cable For Gilson Mp3 Pump	N0690262
Head Assy For Optima PersistaltIC Pump	N0690284
Spectrometer Firmware For Optima 3X00	N0690295
Zod Dual View Toroid Bond Assembly	N0690298
Zod Dv Flat Mirror Bond Assembly	N0690299
Zod Set PeristaltIC Pump Head Assembly	N0690360
RFGen Interconnect Cable Assembly	N0690548
Ignitor Assembly For Optima 3000	N0690592
Plasma Ignitor Cable Assembly	N0690607
CeramIC InterfACe Cone For Optima 3000XI	N0690666
CyclonIC Injector Adapter For 3000 XI	N0690780
Zod Pump Head Hub	N0691600
Chiller For Optima 3000 120 V/60 Hz	N0691883
Zod Shear Gas Label	N0692042
RFGenerator Grid Connection Strap	N0695074
Injector Adapter For Optima 3000	N0695214
RFGenerator Purge Extension Support	N0695282
Injector Support Adapter For Optima 3000	N0695400
Purge Window	N0695428
Nitrogen Purge Gas Generator 115V/60Hz	N0695470

Description	Part No.
PCBBt 20D Temp Sensor	N0699114
Optical Square Tool Zod	N069T100
Side Jaw Pincers Zod	N069T128
Electrical Installation Kit	N0770425
FIAS 400 Read Cable For Optima 5X00	N0770633
Shipping PACk	N0771014
DurAChill Ca10 Chiller 200-240V/50Hz	N0772050
DurAChill Ca10 Chiller 208-230V/60Hz	N0772051
DurAChill Air Filter And UV Light Kit	N0772052
CetAC Home Block Hardware Kit	N0774089
Optical Ring Gasket	N0775204
SC-2 Dx Belt Drive Upgrade Kit	N0776110
SC-4 Dx Belt Drive Upgrade Kit	N0776111
SC-8 Belt Drive Upgrade Kit	N0776112
SC-14 Belt Drive Upgrade Kit	N0776113
FAST VACuum Pump Assy. For SC-2/SC-4	N0776990
Rinse Pump For SC-2/SC-4, Non-Dx	N0776991
PFA/ Quartz Adapter 12/5 Ball Joint	N0777037
PFA Adapter Spray Chamber ELAN Injector	N0777038
PFA Adptr Spray Chamber Optima Injector	N0777039
Ulpa Filtered Enclosure For SC-4	N0777040
Conversion Kit ASX-1400 Oe4 8X12 Tubes	N0777195
SC-2 Autosampler Stand	N0777206
SC-4 Autosampler Stand	N0777207
Enclosure For SC-2 With Ulpa Filter	N0777208
Enclosure For SC-2	N0777209
Enclosure For SC-4	N0777210
Gpib To Rs-232 Convert Kit 14 Addresses	N0777211
Dual Rinse Polypropylene Station	N0777254
Drain Lines 4 Mm Od	N0777255
Teflon Rinse Line, Pumped Version	N0777256
1-Way Stopcock	N0777257
Low Flow Valve CTFE/PTFE Uses M5 Fit	N0777260
Low Flow Valve PEEK Uses M5 Fit	N0777262
High Flow Valve CTFE 1/4 28 Fittings	N0777265
Carbon Fiber Support Probe 0.5Mm Id Org.	N0777267
Enclosure For SC-14 Without Ulpa Filter	N0777325
Enclosure For SC-8	N0777347
Isomist Kit For Optima 4300/5300/7300 V	N0777362
Dual Valve DXI Module For ELAN/Optima	N0777372
Filter Kit For G4-000E/G4-000W Old Style	N0777498
8000 Hour Compressor Kit 110 V	N0777503
Truflo Sample Monitor	N0777516
Hepa Filter For Enclosure Enc-500	N0777554
PC3 12V Power Supply	N0777555
6-Port Valve For Oils Applications	N0777578
ASXPRESS Articulating Mounting System	N0777580

Description	Part No.
XPRESS Rinse Station ASX-1400 90 Pos	N0777584
XPRESS Rinse Station ASX-1400 80 Pos	N0777585
Asx Communication Cables	N0777589
DiapHragm Pump	N0777590
PeristaltIC Pump External 2 Channel	N0777591
MP2 Integrated 4 Channel Precision Micro	N0777648
MP2 Integrated 6 Channel Precision Micro	N0777649
Core UPS Online Conditioned 8.0 Kva, 50/	N0777682C
PEEK Antikink Z-Drive Assembly	N0777683
PEEK Antikink Cable ReplACement Kit	N0777684
CetAC 3-Channel Pump Motor Kit	N0777688
Core Line Conditioner 5.0Kva, 60Hz	N0777690C
SC-2 Dx PrepFAST Cart	N0777747
PrepFAST Syringe Valve And Motor Drive	N0777754
PrepFAST S400V Harness And Switch	N0777755
PrepFAST Rs-485 Communication Cable	N0777757
SC-FAST VACuum Pump SC-8/ SC-14 Non-Dx	N0777775
SC-FAST VACuum Pump SC-8 Dx/SC-14 Dx	N0777776
Rinse Pump For SC-2 Dx	N0777779
Rinse Pump For SC-8/SC-14 Non-Dx	N0777780
Rinse Assembly For SC-8 Dx/SC-14 Dx	N0777781
ASXPRESS ASX-260/510/520/520Hs Aqueous	N0777789
ASXPRESS For ASX-260/510/520/520Hs Oil	N0777790
SC-2/4 Dx Hinged Enclosure Ulpa Side	N0777831
Pump Module Valve Kit	N0777857
ASX-520 Rotor Assembly	N0777878
PROM-JAZ RFController Fpga^	N0778512
Dell Windows 10 System ICPController	N0780205
Controller Assy-ICPSyngistix No Monitor	N0780206
RFGenerator Assembly For Optima 8000	N0780400
Rinse Station ASX-560	N0782042
3 Way Valve Assembly For Xlp3000 Syringe	N0782067
Multi-RACk Rinse Station	N0782068
PC3-Lt Peltier Cooled Sample Intro Avio	N0790025
Gen Enclosure Assy Century - Shipping	N0790451
MP2 Peripump Valve Two Driver Avio 200	N0790955
MP2 Peripump Valve One Driver Avio 200	N0790956
Complete FAST DXI Kit For Avio 200	N0790957
PC3X Peltier Cooler Module No Chamber	N0790972
PC3 Adjustable Shelf For Avio 200	N0790973
Avio 200 Drip Tray	N0791409
Water Chiller Sh150-3000	N0791873
Installation Kit	N0810432
MP2 Peripump Valve One Assembly Avio 500	N0810853
Complete FAST DXI Kit For Avio 500	N0810855
PC3 Adjustable Shelf For Avio 500	N0810876
Dual Valve DXI Module For Avio 500	N0810885

Particle XPRESS Sample Intro System No810998 Syringe Pump Module For Oils 7X00 No810902 Particle XPRESS Upgrade No810918 Pergo Gas Humidifier For Avio 200/500 No810951 PACK-Century B Shipping No811931 ASX-560 Enclosure Enc-560Dc No811931 ASX-560 Enclosure Enc-560Dc No811931ZZ01 ASX-860 Enclosure Enc-660Dc No811932 Le Sensor Kit No811995 510 Sample Probe, 1.0 Mm I.D. No811992 Assembly - Avio500 Air Filter/Regulator No815225 523 Autosampler Enclosure No830011 525 Autosampler Enclosure No830021 520 Series Dual Rinse Station No831032 523 Removeable Tray With Hardware No831032 525 Removeable Tray With Hardware No831033 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024021 Mobile Stand For 5 NexION N8145291 Apex Ir System For NexION N8145291 Apex Ir System For NexION N8145291 Uine Conditioner 2.0 Kva, 60Hz N9306754	Description	Part No.
Particle XPRESS Upgrade No810918 Pergo Gas Humidifier For Avio 200/500 N0810951 PACk-Century B Shipping N0811234 ASX-560 Enclosure Enc-560Dc N0811931 ASX-560 Enclosure Enc-560Dc Sn N08119312201 ASX-860 Enclosure Enc-860Dc N0811932 Le Sensor Kit N0811995 510 Sample Probe, 1.0 Mm I.D. N0812024 Assembly - Avio500 Air Filter/Regulator N0815325 523 Autosampler Enclosure N0830021 525 Autosampler Enclosure N0830021 526 Enclosure Enclosure N0830021 527 Autosampler N0830021 <		N0810898
Pergo Gas Humidifier For Avio 200/500 No810951 PACk-Century B Shipping No811234 ASX-560 Enclosure Enc-560Dc No811931 ASX-560 Enclosure Enc-560Dc Sn No8119312 ASX-860 Enclosure Enc-860Dc No811932 Le Sensor Kit No811995 510 Sample Probe, 1.0 Mm I.D. No812024 Assembly - AvioS00 Air Filter/Regulator No815325 523 Autosampler Enclosure No830011 525 Autosampler Enclosure No830021 520 Series Dual Rinse Station No831032 523 Removeable Tray With Hardware No831032 525 Removeable Tray With Hardware No831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024021 Enclosure For SC-Micro N8145280 Apex Ir System For NexION N8145291 Apex Ir System For NexION N8145291 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306750 UPS Online Conditioned 420 Va, 60Hz N9306940 <		N0810902
PACk-Century B Shipping No811234 ASX-560 Enclosure Enc-560Dc No811931 ASX-560 Enclosure Enc-560Dc Sn No8119312201 ASX-860 Enclosure Enc-860Dc No811932 Le Sensor Kit No811995 510 Sample Probe, 1.0 Mm I.D. No812024 Assembly - AvioS00 Air Filter/Regulator No815325 523 Autosampler Enclosure No830011 525 Autosampler Enclosure No830021 520 Series Dual Rinse Station No831032 523 Removeable Tray With Hardware No831037 525 Removeable Tray With Hardware No831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024001 Mobile Stand For 4 Dx-Fas Autosamplers N2024001 Mobile Stand For 4 Dx-Fas Autosamplers N20240041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex Ir System For NexION N8145291 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioner 420 Va, 60Hz N9306950 Battery- Sec Plus LegACy Pk N9306947	Particle XPRESS Upgrade	N0810918
ASX-560 Enclosure Enc-560Dc N0811931 ASX-560 Enclosure Enc-560Dc Sn N08119312201 ASX-860 Enclosure Enc-860Dc N0811932 Le Sensor Kit N0811995 S10 Sample Probe, 1.0 Mm I.D. N0812024 Assembly - Avio500 Air Filter/Regulator N0815325 S23 Autosampler Enclosure N0830011 S25 Autosampler Enclosure N0830021 S20 Series Dual Rinse Station N0831032 S23 Removeable Tray With Hardware N0831037 S25 Removeable Tray With Hardware N0831037 S25 Removeable Tray With Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz N930694 Battery-Sec Plus LegACy Pk N9306950 Battery-Sec Plus LegACy A Trays N9306950 Battery-Sec Plusi G Trays N9306951 Battery-Abce2202-11 Rk 1 N9306955 Battery-Sec Plusi ii 3 Trays N9306955 Battery-Abce2020-11 Rk 1 N9306956 Battery-Abce2020-11 Rk 1 N9306955 Battery-Abce2020-11 Rk 1 N9306955 Battery-Abce2020-11 Rk 1 N9306955 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 240 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307510 Core Line Conditioner 3.8 Kva, 60Hz N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307511C	Pergo Gas Humidifier For Avio 200/500	N0810951
ASX-560 Enclosure Enc-560Dc Sn ASX-860 Enclosure Enc-860Dc Le Sensor Kit N0811932 Le Sensor Kit N0811995 S10 Sample Probe, 1.0 Mm I.D. N0812024 Assembly - Avio500 Air Filter/Regulator N0815325 S23 Autosampler Enclosure N0830011 S25 Autosampler Enclosure N0830021 S20 Series Dual Rinse Station N0831032 S23 Removeable Tray With Hardware N0831037 S25 Removeable Tray With Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024021 Mobile Stand For NexION N8145291 Apex Ir System For NexION N8145291 Line Conditioner 2.0 Kva, 60Hz UPS Online Conditioned 420 Va, 60Hz UPS Online Conditioned 420 Va, 60Hz N9306754 Battery- Sec Plus LegACy Pk Battery- Sec Plus Line Trays Battery- Sec Plusii 6 Trays Battery- Sec Plusii 3 Trays Battery- Abce2202-11 Rk 3002-11 R Battery- Sec Curity I, 1 Tray N9306955 Battery- Sec Curity Ii, 1 Tray N9306950 Line Conditioner 1920 Va, 60Hz N9306950 Line Conditioner 1920 Va, 60Hz N9306950 Battery- Sec Curity Ii, 1 Tray N9306950 Line Conditioner 1920 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 240 Va, 60Hz N9307510 Core Line Conditioner 3.8 Kva, 60Hz N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307511C	PACk-Century B Shipping	N0811234
ASX-860 Enclosure Enc-860Dc N0811932 Le Sensor Kit N0811995 510 Sample Probe, 1.0 Mm I.D. N0812024 Assembly - Avio500 Air Filter/Regulator N0815325 523 Autosampler Enclosure N0830021 520 Series Dual Rinse Station N0831032 523 Removeable Tray Witth Hardware N0831037 525 Removeable Tray Witth Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024021 Mobile Stand For Vex. Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145291 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306950 Battery- Sec Plus I is Tays N9306947 Battery- Sec Plus Ii 6 Trays N9306950 Battery- Sec Plus Ii 3 Trays N9306951 Battery- Security Ii, 1 Tray N9306955 <	ASX-560 Enclosure Enc-560Dc	N0811931
Le Sensor Kit N0811995 510 Sample Probe, 1.0 Mm I.D. N0812024 Assembly - Avio500 Air Filter/Regulator N0815325 523 Autosampler Enclosure N0830021 525 Autosampler Enclosure N0830021 520 Series Dual Rinse Station N0831032 523 Removeable Tray With Hardware N0831037 525 Removeable Tray With Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145291 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306753 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306947 Battery- Sec Plus LegACy Pk N9306950 Battery- Sec Plusi 3 Trays N9306951 Battery- Sec Plusii 3 Trays N9306955	ASX-560 Enclosure Enc-560Dc Sn	N0811931ZZ01
S10 Sample Probe, 1.0 Mm I.D. N0812024 Assembly - Avio500 Air Filter/Regulator N0815325 S23 Autosampler Enclosure N0830011 S25 Autosampler Enclosure N0830021 S20 Series Dual Rinse Station N0831032 S23 Removeable Tray Wirth Hardware N0831037 S25 Removeable Tray Wirth Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145291 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus I is 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306950 Battery- Sec Plus I is 6 Trays N9306950 Battery- Sec Plus Ii is 7 Trays N9306951 Battery- Sec Plus Ii is 17 Tray	ASX-860 Enclosure Enc-860Dc	N0811932
Assembly - Avio500 Air Filter/Regulator \$23 Autosampler Enclosure \$10830011 \$25 Autosampler Enclosure \$10830021 \$20 Series Dual Rinse Station \$10831032 \$23 Removeable Tray With Hardware \$10831037 \$25 Removeable Tray With Hardware \$10831038 Mobile Stand For 2 Dx-Fas Autosamplers \$10204021 Mobile Stand For 2 Dx-Fas Autosamplers \$10204021 Mobile Stand For 4 Dx-Fas Autosamplers \$10204021 Mobile Stand For 4 Dx-Fas Autosamplers \$10204021 Mobile Stand For 4 Dx-Fas Autosamplers \$10204021 Mobile Stand For Abres Autosamplers \$10204021 Mobi	Le Sensor Kit	N0811995
\$23 Autosampler Enclosure N0830021 \$25 Autosampler Enclosure N0830021 \$20 Series Dual Rinse Station N0831032 \$23 Removeable Tray With Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145292 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306756 Uine Conditioner 1920 Va, 60Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 3 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Security I N9306953 Battery- Security I N9306955 Battery	S10 Sample Probe, 1.0 Mm I.D.	N0812024
S25 Autosampler Enclosure N0830021 S20 Series Dual Rinse Station N0831032 S23 Removeable Tray With Hardware N0831037 S25 Removeable Tray With Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145292 Line Conditioner Z.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 3 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Sec Plusii 3 Trays N9306953 Battery- Security I N9306953 Battery- Security Ii, 1 Tray N9306956 Battery- Security Ii, 1 Tray N9307950	Assembly - Avio500 Air Filter/Regulator	N0815325
S20 Series Dual Rinse Station N0831032 S23 Removeable Tray With Hardware N0831037 S25 Removeable Tray With Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145292 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz Battery- Sec Plus LegACy Pk N9306940 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 3 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery-Abce802-11 Pk 1 N9306955 Battery-Abce2202-11R/3002-11R N9306956 Battery- Sec Vili Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307505 Line Conditioner 1920 Va, 60Hz N9307505 Line Conditioner 1940 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 480 Va, 60Hz N9307512 30Ne Conditioner 480 Va, 60Hz N9307513	S23 Autosampler Enclosure	N0830011
S23 Removeable Tray With Hardware N0831037 S25 Removeable Tray With Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145292 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy A Trays N9306949 Battery- Sec Plusii 6 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce422-11 N9306953 Battery- Fecurity I N9306955 Battery- Security Ii, 1 Tray N9306956 Battery- Security Ii, 1 Tray N9307500 Line Conditioner 1920 Va, 60Hz N9307500	S25 Autosampler Enclosure	N0830021
S25 Removeable Tray With Hardware N0831038 Mobile Stand For 2 Dx-Fas Autosamplers N2024021 Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145292 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz N9306947 Battery- See Plus LegACy Pk N9306947 Battery- See Plus LegACy 4 Trays N9306949 Battery- See Plusii 6 Trays N9306950 Battery- See Plusii 3 Trays N9306951 Battery- See Plusii 3 Trays N9306952 Battery- Abce802-11 Pk 1 N9306953 Battery- Abce802-11 Pk 1 N9306954 Battery- Security Ii, 1 Tray N9306955 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307505	S20 Series Dual Rinse Station	N0831032
Mobile Stand For 2 Dx-Fas Autosamplers Mobile Stand For 4 Dx-Fas Autosamplers N2024041 Enclosure For SC-Micro Apex Ir System For NexION Apex Ir System For NexION Apex HF System For NexION Apex HF System For NexION Apex HF System For NexION N8145292 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz UPS Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz Battery- Sec Plus LegACy Pk N9306947 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce422-11 N9306953 Battery- Abce802-11 Pk 1 N9306954 Battery- Security I N9306955 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307511C Core UPS Online Conditioner 5.2 Kva, 50/ N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	S23 Removeable Tray With Hardware	N0831037
Mobile Stand For 4 Dx-Fas Autosamplers Enclosure For SC-Micro N8145080 Apex Ir System For NexION N8145291 Apex HF System For NexION N8145292 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Abce422-11 N9306953 Battery- Abce802-11 Pk 1 N9306954 Battery- Security I N9306955 Battery- Security I, 1 Tray N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307511 Core UPS Online Conditioner 3.8 Kva, 60Hz N9307512 Solve Conditioner 3.8 Kva, 60Hz N9307512 Solve Conditioner 3.8 Kva, 60Hz N9307513	S25 Removeable Tray With Hardware	N0831038
Enclosure For SC-Micro Apex Ir System For NexION Apex Ir System For NexION Apex HF System For NexION N8145291 Apex HF System For NexION N8145292 Line Conditioner 2.0 Kva, 60Hz Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce802-11 Pk 1 N9306953 Battery- Security I N9306955 Battery- Security I N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307511 Core UPS Online Conditioner 3.8 Kva, 60Hz N9307512 N9307512 Online Conditioner 480 Va, 60Hz N9307513	Mobile Stand For 2 Dx-Fas Autosamplers	N2024021
Apex Ir System For NexION N8145291 Apex HF System For NexION N8145292 Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner N9306754 UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306947 Battery- Sec Plus LegACy 4 Trays N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusi i 6 Trays N9306950 Battery- Sec Plusii 3 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce802-11 Pk 1 N9306953 Battery- Security I N9306954 Battery- Security Ii, 1 Tray N9306955 Battery- Security Ii, 1 Tray N9306956 Battery- Security Ii, 1 Tray N9307500 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line	Mobile Stand For 4 Dx-Fas Autosamplers	N2024041
Apex HF System For NexION Line Conditioner 2.0 Kva, 60Hz N9306753 Opto-Isolator Power Conditioner UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce422-11 N9306953 Battery-Abce802-11 Pk 1 N9306954 Battery- Security I N9306955 Battery- Security I N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz Line Conditioner 1920 Va, 60Hz Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307511 Core UPS Online Conditioner 5.2 Kva, 50/ N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Enclosure For SC-Micro	N8145080
Line Conditioner 2.0 Kva, 60Hz Opto-Isolator Power Conditioner UPS Online Conditioned 420 Va, 60Hz Line Conditioner 1920 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce422-11 N9306953 Battery- Abce802-11 Pk 1 N9306954 Battery- Security I N9306955 Battery- Security I, 1 Tray N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz Line Conditioner 1920 Va, 60Hz Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Apex Ir System For NexION	N8145291
Opto-Isolator Power Conditioner UPS Online Conditioned 420 Va, 60Hz N9306756 Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus li 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce422-11 N9306953 Battery- Abce802-11 Pk 1 N9306954 Battery- Abce802-11 Pk 1 N9306955 Battery- Security I N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz Line Conditioner 1920 Va, 60Hz Line Conditioner 1940 Va, 60Hz Line Conditioner 240 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Apex HF System For NexION	N8145292
UPS Online Conditioned 420 Va, 60Hz Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz Battery- Sec Plus LegACy Pk Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusi 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce422-11 N9306953 Battery- Abce422-11 N9306954 Battery- Abce802-11 Pk 1 N9306955 Battery- Abce202-11R/3002-11R N9306955 Battery- Security I N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz Line Conditioner 1920 Va, 60Hz Line Conditioner 1920 Va, 60Hz Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Line Conditioner 2.0 Kva, 60Hz	N9306753
Line Conditioner 1920 Va, 60Hz N9306759 Online UPS ICPPlus li 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce422-11 N9306953 Battery- Abce802-11 Pk 1 N9306954 Battery- Abce202-11R/3002-11R N9306955 Battery- Abce2202-11R/3002-11R N9306956 Battery- Security li, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307512C 30Ne Conditioner 480 Va,60Hz N9307513	Opto-Isolator Power Conditioner	N9306754
Online UPS ICPPlus li 5.2 Kva 50/60 Hz N9306947 Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plusi LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery-Abce422-11 N9306953 Battery-Abce802-11 Pk 1 N9306953 Battery-Security I N9306954 Battery-Security I N9306955 Battery- Abce2202-11R/3002-11R N9306955 Battery- Security Ii, 1 Tray N9306956 Battery- Security Ii, 1 Tray N9307500 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	UPS Online Conditioned 420 Va, 60Hz	N9306756
Battery- Sec Plus LegACy Pk N9306949 Battery- Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery- Abce422-11 N9306953 Battery-Abce802-11 Pk 1 N9306953 Battery-Security I N9306954 Battery- Security I N9306955 Battery- Security Ii, 1 Tray N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 480 Va, 60Hz N9307513	Line Conditioner 1920 Va, 60Hz	N9306759
Battery-Sec Plus LegACy 4 Trays N9306950 Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery-Abce422-11 N9306953 Battery-Abce802-11 Pk 1 N9306954 Battery-Security I N9306955 Battery- Abce2202-11R/3002-11R N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 480 Va,60Hz N9307513	Online UPS ICPPlus Ii 5.2 Kva 50/60 Hz	N9306947
Battery- Sec Plusii 6 Trays N9306951 Battery- Sec Plusii 3 Trays N9306952 Battery-Abce422-11 N9306953 Battery-Abce802-11 Pk 1 N9306954 Battery-Security I N9306955 Battery- Abce2202-11R/3002-11R N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307511C Core UPS Online Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Battery- Sec Plus LegACy Pk	N9306949
Battery- Sec Plusii 3 Trays N9306952 Battery-Abce422-11 N9306953 Battery-Abce802-11 Pk 1 N9306954 Battery-Security I N9306955 Battery-Abce2202-11R/3002-11R N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz N9307507 Line Conditioner 240 Va, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 480 Va,60Hz N9307513	Battery-Sec Plus LegACy 4 Trays	N9306950
Battery-Abce422-11 N9306953 Battery-Abce802-11 Pk 1 N9306954 Battery-Security I N9306955 Battery-Abce2202-11R/3002-11R N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 480 Va,60Hz N9307513	Battery- Sec Plusii 6 Trays	N9306951
Battery-Abce802-11 Pk 1 N9306954 Battery-Security I N9306955 Battery-Abce2202-11R/3002-11R N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 480 Va,60Hz N9307513	Battery- Sec Plusii 3 Trays	N9306952
Battery-Security I N9306955 Battery- Abce2202-11R/3002-11R N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Battery-Abce422-11	N9306953
Battery- Abce 2202-11R/3002-11R N9306956 Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va,60Hz N9307513	Battery-Abce802-11 Pk 1	N9306954
Battery- Security Ii, 1 Tray N9306957 Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Battery-Security I	N9306955
Line Conditioner 1920 Va, 60Hz N9307500 Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Battery- Abce2202-11R/3002-11R	N9306956
Line Conditioner 1920 Va, 60Hz N9307501 Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Battery- Security Ii, 1 Tray	N9306957
Line Conditioner 1440 Va, 60Hz N9307502 Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva,60Hz N9307512C 30Ne Conditioner 480 Va,60Hz N9307513	Line Conditioner 1920 Va, 60Hz	N9307500
Line Conditioner 520 Va, 60Hz N9307505 Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Line Conditioner 1920 Va, 60Hz	N9307501
Line Conditioner 240 Va, 60Hz N9307506 Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva,60Hz N9307512C 30Ne Conditioner 480 Va,60Hz N9307513	Line Conditioner 1440 Va, 60Hz	N9307502
Line Conditioner 240 Va, 60Hz For Tea N9307507 Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva, 60Hz N9307512C 30Ne Conditioner 480 Va, 60Hz N9307513	Line Conditioner 520 Va, 60Hz	N9307505
Line Conditioner 240 Va, 60Hz N9307508 Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva,60Hz N9307512C 30Ne Conditioner 480 Va,60Hz N9307513	Line Conditioner 240 Va, 60Hz	N9307506
Line Conditioner 3.8 Kva, 60Hz N9307510 Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva,60Hz N9307512C 30Ne Conditioner 480 Va,60Hz N9307513	Line Conditioner 240 Va, 60Hz For Tea	N9307507
Core UPS Online Conditioner 5.2 Kva, 50/ N9307511C Core Line Conditioner 3.8 Kva,60Hz N9307512C 30Ne Conditioner 480 Va,60Hz N9307513	Line Conditioner 240 Va, 60Hz	N9307508
Core Line Conditioner 3.8 Kva,60Hz N9307512C 30Ne Conditioner 480 Va,60Hz N9307513	Line Conditioner 3.8 Kva, 60Hz	N9307510
30Ne Conditioner 480 Va,60Hz N9307513	Core UPS Online Conditioner 5.2 Kva, 50/	N9307511C
	Core Line Conditioner 3.8 Kva,60Hz	N9307512C
LL C IV SCOV COU	30Ne Conditioner 480 Va,60Hz	N9307513
Line Conditioner 360 Va, 60Hz N930/514	Line Conditioner 360 Va, 60Hz	N9307514

Description	Part No.
720 Va Line Conditioner, 120V 60Hz	N9307515
Line Conditioner 180 Va,60Hz	N9307516
Neslab Merlin M150 Pd2	NL000371
Lock Wshr- M3 Int Tooth	09211052
Cap Scr- M6 X 12 Shcs W Washers Captive	09220309
MACh Scr-M4 X 50Mm Pan Hd pHillips Sst	09220440
Handle- Pull 72Mm L X 33Mm H	09221017
7 Port Powered USB 3.0 Desktop Hub	09241014
IC Lan Controller 10/100/1000 Mbps	09251397
IC Smt- Flash Memory Cat28F001 128K X 8	09270539
IC- Temp Sensor Lm35	09271013
IC Smt- Microprocessor Mpc8245 32 Bit	09271160
IC Smt- Ethernet Controller Lu82551Er	09271305
Sensor- Optical Apds-9301 Digital	09281012
Conn- D-Type 5Pos Rcpt Cbd	09291161
Conn- Elbow Plug With Collet	09291402
USB B/USB A Cable 3M	09292068
USB 2 Cable 480Mbps A/B Plug 10 Ft	09421130
ELAN Spray Chamber Instructions	09938864
GPIB/IEEE 488 Connector Adapter 24 Pos	09997196
AC Power 250V 15A (6-15R ReceptACle)	09997402
Ad6 Motor Cover Ftb	C6957814
Local Supply For Mas	LOSUPMAS
Shelf For Apex/PC3-Lt Optima 3000 Dv	N0777387
ELAN/Clarus 500 Transfer Line 110/120 V	N0777440
Lc/ICP-MS Standard InterfACe Kit	N8120532
VACuum Degas Metal Free Kit	N8120534
Installation Kit For ELAN 9000/DRCe	N8120538
Perispec ChromatograpHy Peak	N8121044
Adapter For ESI ELAN Injector	N8121065
Gas Cabinet F/2 Cylinders Incl. BrACkets	N8121066
Gas Cylinder Extra 2 BrACket	N8121067
Pump Bundle Kit For Ds602	N8122195
HPLC PEEK Switching Valve	N8122251
pH Meter With Standards	N8122257
Pump Tubing Adapter	N8122258
Fomblin Ready Ds602 Pump	N8122264
Trigger Cable For Newwave Laser	N8122434
6 Port 1.6 Mm FAST Valve	N8122453
Hydride ICPGeneration System MP2 6	N8122470
InterfACe Cable For Cont.Of Gilson Pump	N8125003
NexION Rough Pump Cable, 4 M	N8140195
Tubing Assembly DRC Inlet A	N8140200
Manifold Assembly DRC A	N8140202
Manifold Assembly DRC Inlet A	N8140204
Manifold Assembly DRC B	N8140205
Manifold Assembly DRC B	N8140206

Description	Part No.
Manifold Assembly DRC A	N8140232
Leybold Roughing Pump Filter Kit	N8140396
NexION VACuum Valve Kit	N8140510
Foreline Air Purge	N8140521
Single Valve DXI Module NexION 300/350	N8140535
PC3 Peltier Cooler For NexION 350	N8140672
PrepFAST M5 Line/Valve Assembly	N8140674
Pergo 2 Argon High Solids ACcessory	N8140743
Pergo 300 Humidifier For NexION 300/350	N8140750
Pergo 300 AMS Humidifier NexION 300/350	N8140751
Isomist For NexION	N8141426
DXI Peripump Extension Cable 300/350	N8142116
DXI Module NexION One 6 Port FAST	N8142200
Power Cord Nema 6-15P North America	N8145006
Power Cord SV40BI Schuko Europe	N8145007
Power Cord SV40BI Great Britain	N8145008
Power Cord SV40BI Switzerland	N8145009
Power Cord SV40BI No Plug	N8145010
Anti-Suck Back Valve Plate	N8145019
Uhp Helium 2 Stage Ultor Regulator	N8145021
MP2 Integ. 3 Chan Micro Pump For NexION	N8145066
MP2 Integ. 4 Chan Micro Pump For NexION	N8145067
MP2 Integ. 6 Chan Micro Pump For NexION	N8145068
2 Channel MP2 Stand Alone Peripump	N8145093
3 Channel MP2 Stand Alone Peripump	N8145094
4 Channel MP2 Stand Alone Peripump	N8145095
Spiro Tmd Heated Membrane Desolv Module	N8145100
Syringe Pump 0.3 mL O-Ring Free Quartz	N8145222
Syringe Pump 3 mL O-Ring Free Quartz	N8145223
Syringe Pump 0.3 mL O-Ring Free PFA	N8145225
Syringe Pump 3 mL O-Ring Free PFA	N8145226
12 mL O-Ring Free PFA Syringe For Pump	N8145227
Clamp For 12/5 Socket	N8145311
Argon Humidifier For NexION	N8145409
Argon Humidfier 2 Channel ELAN/NexION	N8145413
Dual Valve DXI Module For NexION	N8145436
Syringe Pump 3 mL Quartz With FAST Valve	N8145447
FIAS Trigger Cable For NexION/ELAN	N8145449
Inert Gas Purge For PrepFAST S 2Dx	N8145482
8 Position Sample RACk 16Mm Od Vials	N8145483
NexION PC3 DXI Power Cable	N8145557
V8C PrepFAST Valve With Stator And Rotor	N8145559
S4 PrepFAST 4 Port Injection Valve	N8145560
Mobile Autosampler Station For 2 Dx	N8145574
Mobile Autosampler Station For 4 Dx	N8145575
Kit- Gama AMS External Fittings	N8150011
SQ14Pass Flow Controller Kit	N8150012

Description	Part No.
Plasma Mass Flow Controller Kit	N8150013
NexION 2000 Emergency Off Kit	N8150022
NexION 1000 Installation Kit	N8150030
NexION Regulator Tubing Kit	N8150043
Kit-NexION Chiller Installation	N8150051
Kit- NexION Perseus Install W/Vcr	N8150053
Controller Assy- ICP-MS Syngistix	N8150063
Kit- Igog Quad Mode He NexION 2000	N8150068
Kit- Install 1000/1000G	N8150073
Kit-Gama Install Models B/C/P W/Vcr	N8150080
NexION Installation Kit W/Vcr Sn	N8150080ZZ01
Kit- Install 2000 Models B/C/P/G/S	N8150081
NexION S Installation Kit W/Vcr	N8150090
Kit- Install 2000 Model S	N8150091
Kit- GC To ICP-MS	N8150120
Kit-Helium Gas NexION 1000/2200/5000	N8150123
Ammonia Getter Kit 99.9995% Purity	N8150180
Weld Assy-Gama Plenum	N8150231
Weldment- Gama Instrument Panel Sprt	N8150298
Weldment- Gama Instrument Panel Hold	N8150299
Assy- Gama Tray	N8150361
NexION 2000 Lifting Tray With Handles	N8150370
MicroFAST Line Valve Assembly	N8150400
DXI Module Dual Valve For NexION 2000	N8150443
PC3X Peltier Cooler For PFA Barrel	N8150451
Smarttuner M8 For NexION 1000/2000	N8150480
Apex 2 Q Desolvation Quartz Chamber	N8150481
Apex 2 HF Desolvation PFA Chamber	N8150483
Apex Omega Desolvation Quartz Chamber	N8150484
Apex Omega Desolvation PFA Chamber	N8150485
Elegra Argon Humidifier	N8150493
Elegra Dual Two-Channel Argon Humidifier	N8150494
Pergo Gas Humidifier For NexION 2000 AMS	N8150498
Pergo Gas Humidifier For NexION 2000	N8150499
NexSAR Switching Valve	N8150508
NexSAR Solvent Tray Assembly	N8150509
NexSAR Degasser Solvent Tray Assembly	N8150510
FRU Gold Plated Vent Strap Cell Assy.	N8150529
FRU Gold Plated No Vent Strap Cell Assy.	N8150530
Transfer Line- GC To Icpms Clarus NexION	N8150532
Converter- External A-To-D	N8150535
Temp Controller Module- GC To Icpms	N8150538
Complete Assy- GC-ICPms TI Clarus NexION	N8150539
Cable Assy- Gama Roughing Pump Crtl	N8150802
Cable Assy- Gama Pump Recir & Exh Ctrl	N8150808
VACuum Pump- SogevAC SV40BI W/ Delta Fc	N8151010
Core SV40BI VACuum Pump For NexION (Fc W	N8151010C

Description	Part No.
SV40BI VACuum Pump For NexION Sn	N8151010ZZ01
SV40BI VACuum Pump For NexION Sn	N8151010ZZ02
Plate- Gama Lens Front Panel	N8152013
Cover- Gama Line Filter	N8152021
BrACket- Gama Ps Stop Long	N8152042
BrACket- Gama Ps Stop Short	N8152043
Block- Gama Cb Solenoid Valve	N8152059
Clamp- Gama Viewport Mirror	N8152093
Decal- Gama Gas Bulkhead Top	N8152141
Label- Gama Electrical Bulkhead	N8152143
Cover- Gama Instrument Panel	N8152155
BrACket- Gama Side Panel Securing	N8152187
NexION 2000 Casting Box	N8152211
Cover- Gama Rfg Water Line	N8152221
NexION Molded Exhaust	N8152284
Label- Gama Plenum Mb Connectors	N8152324
Label- Gama Plenum Argon Connections	N8152325
Decal- Gama Plenum J63/J67	N8152355
MP2 Peripump NexION 2000 4Ch W/Upg.Port	N8152436
BrACket- Gama Astec Ps Front	N8152461
BrACket- Gama Rear Plenum Fan Mount	N8152467
Ammonia Dual Stage Tank Regulator	N8152490
Oxygen Dual Stage Tank Regulator	N8152491
Hydrogen/Methane Dual Stage Regulator	N8152492
MicroFAST Line/Valve Assembly	N8152542
External FAST Pump Module	N8152543
Ammonia Regulator 0-30 W/Vcr	N8152566
Ammonia Regulator 0-30 W/Vcr Sn	N8152566ZZ01
Methane/Hydrogen Regulator 0-50 Psig W/V	N8152567
Oxygen Regulator 0-50 Psig W/Vcr	N8152568
Helium Regulator 0-50 Psig W/Vcr	N8152569
Helium Regulator 0-50 Psig W/Vcr Sn	N8152569ZZ01
VACuum Pump Noise Enclosure No Alarm	N8152598
VACuum Pump Noise Enclosure With Alarm	N8152599
P3 Valve With CTFE Stator	N8152617
CTFE Stator For P3 Sample Valve	N8152618
PFA Rotor For P3 Sample Valve	N8152619
CTFE Stator For P13 Sample Valve	N8152620
PFA Rotor For P13 Valve	N8152621
CTFE Stator For A5E Valve	N8152622
PFA Rotor For A5E Valve	N8152623
CTFE Stator For A7U Valve	N8152624
Pm6 High-Flow 6 Port Valve	N8152626
CTFE Stator For Pm6 Valve	N8152627
PFA Rotor For Pm6 Valve	N8152628
Pm7+ High-Flow 6 Port Valve	N8152629
CTFE Stator For Pm7+ Valve	N8152630

Description	Part No.
P4H Valve With CTFE Stator	N8152631
P5H Valve With CTFE Stator	N8152634
M3H Valve With CTFE Stator	N8152644
M6 Valve With CTFE Stator	N8152650
M10 Valve, Stream Selection/Distribution	N8152655
S9 Valve For PrepFAST S	N8152661
S11 Valve For PrepFAST S	N8152664
Gas Purge For PrepFASTs 4Dx	N8152673
Valve Driver Assembly For NexION 2000	N8152675
MicroFAST P7 Line Valve Assembly	N8152678
MicroFAST SCFAST Probe	N8152679
MP2 Peripump Valve One Driver NexION	N8152696
VACuum Noise Enclosure W/Alarm/Exhaust	N8152702
VACuum Pump Noise Enclosure Dolly Update	N8152703
NexION Peripump Roller Head	N8152770
Input Output Cable	N8152866
Kit- Installation 5000 B/G/S	N8160016
Kit- DrACo Installation	N8160018
NexION 5000 S2/S8 Semi Kit	N8160021
NexION 5000 Emo Kit	N8160022
NexION 5000 Gas Box	N8160025
Kit- DrACo Spill/Restraint	N8160026
Critical Purity Argon Regulator Kit	N8160125
Positrap Filter Molecular Sieve	N8160164
Positrap Filter Kit For ACids	N8160165
Weldment- DrACo Front Panel ACcess Hatch	N8160342
Plate- DrACo Lens Front Panel	N8161051
Pcba- DrACo Led Strip	N8169282
Kit- Installation 1100	N8170016
Kit- Installation 2200	N8170018
Kit- Semiconductor Non-HF	N8170107
Kit- Semiconductor HF	N8170108
3 Cone Removal Tool NexION 2200/5000	N8170117
ICP-MS Controller Syngistix V4.0	N8170160
Weldment- Left Cover Panel	N8170357
Kit- Upgrade NexION 1100 Dual Channel	N8170386
NexION 1100 Three Channel Upgrade Kit	N8170387
NexION 1100 PC3 Sample Introduction Kit	N8171067
Online UPS NexION 11/2200 8.0Kva 50/60Hz	N8171140
Cover Panel- Left Front Corner	N8172158
Doc PACk- NexION 5000G Addendum Docs	N8990104
Online UPS Mas Plus li 8.0 Kva 50/60 Hz	N9306946
IC DAC Quad 16Bit Ssop	W100000352
Trans Nfet 800V 0.19A Sot223	W100000435
DRC2 Parts List And Service Manual Cd	W1002981
Trans Nfet 1000V 3.6A To220	W1003266
1/8 Stainless Steel Tubing (305 Cm)	W1006163

Description	Part No.
Laser Adapter For E6000	W1008202
Second Mass Flow Controller Kit W/Vcr	W1008202 W1008680
2 Mm Hex Bit For Lens Removal Tool	W1008680 W1010598
	W1010398 W1017867
Cassette E-Lens FRU Kit	
128 Card 133Mhz Sdram Sodimm	W1018957
Res Net 5K23-150K-150K	W1019996 W1023266
Bushing Operating Rod	
Shield Panel OnESIde 25 Ft Roll	W1026438
Oxygen Gas Mass Flow Upg. Kit NexION	W1027518
Bearing Flanged Sleeve 0.25 In Id X 0.37	W1036246
Washer Belleville Spring 0.255 In Id X 0	W1036248
Washer DiSCSpring 0.390 In Id X 0.812 I	W1036304
Foot Coaster-Jaz Base	W1037012
Mt Shk Absorb Bushing(Same As 09908862)	W1037035
Nut Hex 0.25-20 Nylon Insert Lock Ss	W1037070
Adapter Spray Chamber UV M27	W1037267
HPLC Cable For NexION. 3M (10Ft)	W1037802
IC Flash Prom Xilinx 2Mbit	W1039167
Nut Hex 0.3125-18 Nylon-Insert Lock	W1039348
NexION 300/350 Drip Tray	W5005586
O-Ring- 0.364ld 0.070Wd Viton Brown	WE000329
Teflon Tube .025 Od X .125 Id	WE002141
VAC Tubing 1.25Id X 1.614Od Flex Per Ft	WE007848
Short High Voltage Feedthrough	WE008046
Quick Connector Fitting, 1/4	WE009381
Line Filter Input, 30A/250V	WE010051
ElectronIC 3-Way Poppet Valve	WE011520
Rod Electrode Tungsten Stem 1/16 Inch	WE012058
Retro Kit Filament Shutdown	WE013038
Spills Control Kit	WE013064
3.5H Ripple Fixed Generator Inductor	WE013171
Cable Assembly IEEE-488 1M Long	WE013582
3-Way Water Solenoid	WE013896
Bellow Stainless Steel InterfACe	WE013952
18Awg Wire Strand Red 20 Kv	WE014410
RFShield Cowling To Torch Box	WE014875
Spring Gas, 35 Lbs	WE014909
Coaxial Feedthru Assembly	WE015184
Nt 12 Controller	WE015262
Thermostat, 121 Degree C Nc 250V	WE015288
Cap 40Uf AC Metalized Power FACtor	WE015722
Mass Flow Cont. W/ Neb. For ELAN 6000	WE015772
Rail Chamber Chrome Mount Plt	WE015902
PCBMother Board For ELAN 6000	WE016267
PCBRs232 Isolation	WE016335
Adjustable Torch Mount Assembly	WE016539
Solenoid 2-Way Valve 7121 K	WE016549

Description	Part No.
5Fmr*Auto 188/250/230V-4Kva	WE016560
XFMF-ICPRFGenerator	WE016561
XFMR Filament, 220V 6.3V 25A	WE016562
Stop DiSCType	WE018278
E-Lens Assembly	WE018380
Proximity Switch ReplACement Kit	WE018901
Argon Gas Manifold Assembly	WE019167
Ammonia DRC Gas Tubing Pre-Cleaned Percm	WE019748
Filter Emi Suppr 50Mhz Smd	WE019862
IC Fpga 3020 70Mhz Plcc84	WE020074
IC DAC Dual 12 Bit Volt O P	WE020380
IC Mem 128K X 8 Flash Plcc	WE020412
SCR pHil Cheese M4X10 Ss	WE020760
Hinge Set	WE020860
Air Filter RFGenerator Side ELAN 6000	WE021073
Feedthru QPS Coil Hv	WE021141
RFSeal ContACt Strip, 24	WE021456
Rubber Tube 1/2 Id	WE021511
Wire AC Rods Kit	WE021924
J5 Backplane Cable Assembly	WE021978
VACuum Gauge Cable Assembly	WE021980
M5 W Pvc Gasket Barb Fitting	WE022508
Temperature Control Panel Option	WE023257
Coolant Flow Switch Assembly	WE023361
Grommet Edging Bt3	WE023778
M27 Male Adapter	WE025238
Fitting-Din 6 To 1/4 Inch Npt	WE025626
Scr Hex Button Hd M3X6 Ss (9919857)	WE026134
Oxygen Gas Mass Flow Controller Kit	WE028428
DRC Ii Mass Flow Cont. Kit (No Getter)	WE028439
Corrosive Purge Kit	WE029013
CONN REC LGH Panel Mnt 15Kv	WE062807



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