GLASS EXPANSION
Quality By Design

Supplies and Accessories Catalogue | Issue 11 2026

Providing High Quality ICP-OES & ICP-MS Sample Introduction Solutions for Over 40 Years.



www.geicp.com

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Introduction to Glass Expansion Nebulizers

The nebulizer is a critical component of your ICP sample introduction system, so why not opt for the highest quality? Glass Expansion has been manufacturing ICP nebulizers since the early 1980s and continually updates nebulizer designs to improve performance and ease of use. Our proprietary designs include a thick walled VitriCone capillary, UniFit sample line connector and the Direct Connect (DC) product line.

Whether your ICP laboratory is analyzing clean aqueous samples, samples containing HF and/or high dissolved salts, or volatile organic solvents; Glass Expansion has a nebulizer to suit your needs. Learn about the performance advantages and overall difference in construction quality that a Glass Expansion nebulizer can provide your ICP laboratory.

Nebulizer Types

Nebulizer	Dead Volume V_0 (µL)	TDS (%)	Particulates (µm)	HF	Precision	Purity	Material
SeaSpray™ 	4	20	*200	No	High	Good	Glass
MicroMist™	1	15	*100	No	High	Good	Glass
Conikal™	5	5	210	No	High	Good	Glass
Slurry™	11	1	280	No	High	Good	Glass
Quartz SeaSpray™	5	20	210	No	High	Excellent	Quartz
OpalMist™ 	4	15	*200	Yes	High	Excellent	PFA
DuraMist™ 	4	30	*200	Yes	High	Good	PEEK
VeeSpray™ 	100	30	550	Yes	Moderate	Good	Ceramic

***Particle Size Tolerance (µm):** **200** = USS1, USS2, DM2, PFA2; **140** = PFA1, DM1; **100** = USS04, PFA04, DM04; **90** = UM02, UM01, UM005; **70** = PFA005, PFA01, PFA02

Understanding Nebulizer Part Numbers



Example: MicroMist DC Nebulizer 0.4mL/min

A 1 3 — **Prefix denoting the type of gas connector to suit ICP model**
e.g. A13 = Agilent®

1 — **Argon flow in L/min**
e.g. 1 = 1L/min
07 = 0.7L/min

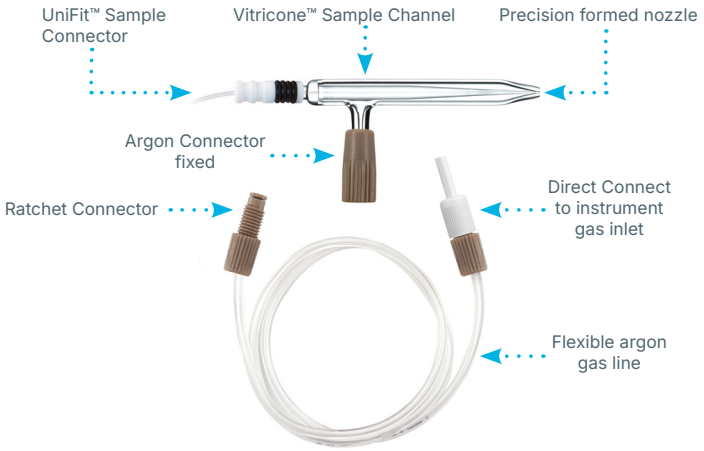
U M — **Nebulizer model type**
e.g. UM = MicroMist U-Series

- **UC** = Conikal U-Series
- **US** = Slurry U-Series
- **UM** = MicroMist U-Series
- **CV** = Ceramic Veespray V-Groove
- **DM** = DuraMist HF Resistant
- **USS** = SeaSpray U-Series
- **PFA** = OpalMist PFA HF Resistant

0 4 — **Self-aspirated uptake rate at nominal argon flow in mL/min for all concentric nebulizers**
e.g. 04 = 0.4mL/min
1 = 1mL/min
04S = 0.4mL/min with 1,500mm tubing

DC Nebulizers

The DC (Direct Connection) nebulizer has a UniFit sample connector which slides easily over the sample arm and an argon connector configured to connect directly to your ICP.



Benefits:

- Made from constant bore thick walled tubing (VitriCone)
- Machined exterior provides proper aerodynamics
- Zero dead volume sample connection
- Inert metal-free argon connector
- ICP model specific Direct Connect (DC) argon line
- Ratchet fitting ensures leak-free gas connection
- Direct plug-in gas line connection to instrument
- Lowest internal dead volume for rapid washout

DC versions of the SeaSpray, MicroMist, Conikal, Slurry, DuraMist, OpalMist and VeeSpray nebulizers are available to suit the most common models of ICP-OES and ICP-MS.

The DC nebulizer part number has a prefix specific to each type of gas connector. For example, the prefix "A13-" denotes a connector for the Agilent® 5000 ICP-OES Series, so part number A13-07-USS2 is a SeaSpray nebulizer configured for direct connection to the Agilent® 5000 Series.

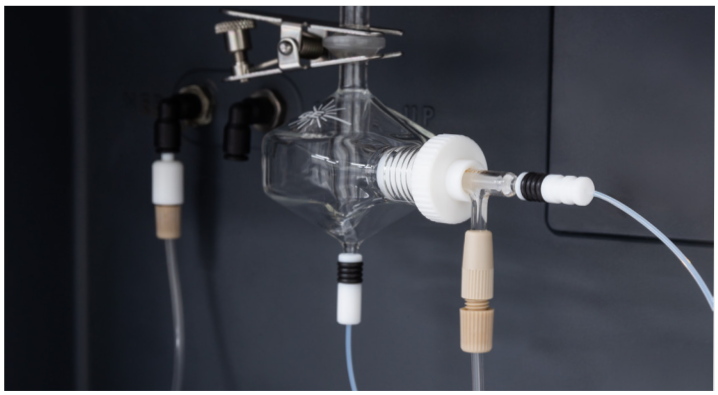
In addition to these unique benefits, the DC nebulizer shares the following benefits with the U-Series nebulizer:

- **Resists blockage:** The sample channel is uniform from the entry point to the tip, so there is nowhere for particulates to be trapped.
- **Fast washout:** Precision bore sample channel maintains lowest dead volume, providing the fastest possible washout.
- **Simple to use:** Our innovative UniFit connector slides easily over the sample arm and creates an excellent seal.
- **Full length VitriCone construction:** In the VitriCone design, the sample channel is formed from heavy-wall, precision-bore capillary machined to extremely tight tolerances, resulting in a uniform channel that resists clogging and provides high analytical precision.

Quartz SeaSpray DC Nebulizer

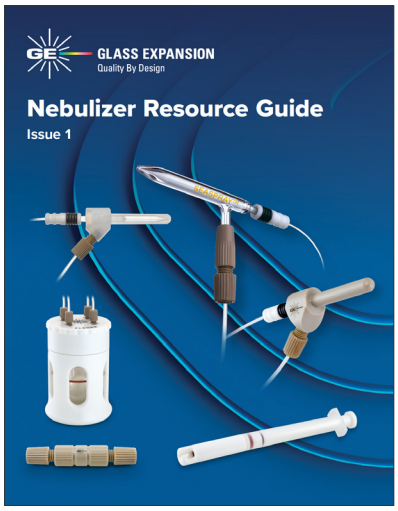
The Quartz SeaSpray DC nebulizer is made from ultra pure quartz and offers outstanding nebulization efficiency for trace level analyses. It offers freedom from clogging while nebulizing solutions to the limit of solubility of most mineral salts, and conferring significant sensitivity gains. It is specifically designed for ultra trace level analysis.





Nebulizer Resource Guide

Whether your ICP laboratory is analyzing clean aqueous samples, samples containing HF and/or high dissolved salts, or volatile organic solvents, Glass Expansion has a nebulizer to suit your needs. Discover everything you need to know about nebulizers with our all-in-one comprehensive Nebulizer Resource Guide.



Click here to view the Nebulizer Resource Guide

DC Nebulizer Gas Fitting Connectors

Manufacturer	Model	P/N Prefix	Gas Line Included	
Agilent Technologies®	4100/4200	MP11-	70-803-0969	
Agilent Technologies®	Vista/700-ES	A11-	70-803-0969	
Agilent Technologies®	9500	A15-	70-803-2862	
Agilent Technologies®	7700/7800/7850/7900/8800/8900	A13-	70-803-1105	
Agilent Technologies®	5000 Series	A13-	70-803-1105	
Analytik Jena®	ICP-MS	A61-	70-803-2002	
Analytik Jena®	ICP-OES	A13-	70-803-1105	
Horiba® Jobin Yvon	All Models	A13-	70-803-1105	
Nu Instruments	ICP-MS	A51-	70-803-1858	
Nu Instruments	TOF-ICP-MS	A52-	70-803-2044	
PerkinElmer®	ICP-OES	A21-	70-803-1070	
PerkinElmer®	Elan/NexION 300/350	A22-	70-803-1049	
PerkinElmer®	NexION 1000, 1100, 2000, 2200, 5000	A23-	70-803-1449	
Shimadzu®	All Models	A41-	70-803-1311	
Spectro™	All Models	A21-	70-803-1070	
Standard BioTools™ (Fluidigm)	Helios	A21-	70-803-1070	
Thermo Scientific™	PRO, 6000/7000, Q/RQ/TQ/RQ Plus, X-Series & Neoma	A31-	70-803-1105	
Thermo Scientific™	MX Series	A13-	70-803-1105	
Thermo Scientific™	Neptune	A11-	70-803-0969	

Learn About Glass Expansion Nebulizers

All Glass Expansion concentric nebulizers use the unique VitriCone™ construction delivering the best possible precision.



Benefits:

- Inert metal-free argon connector.
- Instrument-specific Direct Connect flexible argon line.
- Reliable ratchet fitting ensures leak-free gas connection.

DC versions of the SeaSpray, MicroMist, Conikal, Slurry, DuraMist, OpalMist and VeeSpray nebulizers are available to suit the most common models of ICP-OES and ICP-MS.

Nexus™ Universal Nebulizer Connection Kit

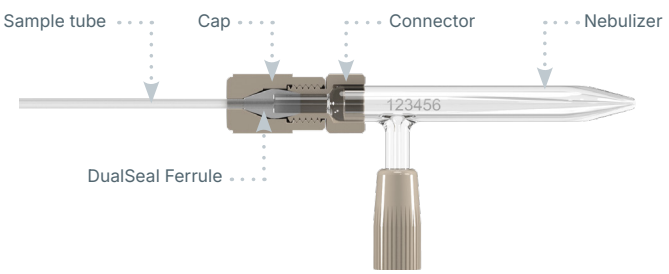
The Nexus™ Universal Connection Kit is a one-size-fits-all nebulizer connection kit which enables you to use any of Glass Expansion's industry-leading concentric nebulizers* with the sample introduction configuration of your choice, including switching valves, chromatographs (LC, HPLC, IC, etc.), and other high-performance accessories:

- **Switching Valves:** Simple and reliable custom-length connections to all high-throughput valve or syringe-drive systems.
- **Speciation Analysis:** Zero-dead-volume and secure, direct connection for hyphenated techniques, such as LC-ICP-MS, HPLC-ICP-MS, IC-ICP-MS, and FFF-ICP-MS.
- **High-Efficiency Sample Introduction System (HE-SIS):** Connect to Glass Expansion's HE-SIS, which provides up to 95% transport efficiency for a variety of applications.
- **High-Precision Analysis:** Create a high-pressure seal when performing self-aspiration for the most stable sample uptake and delivery.

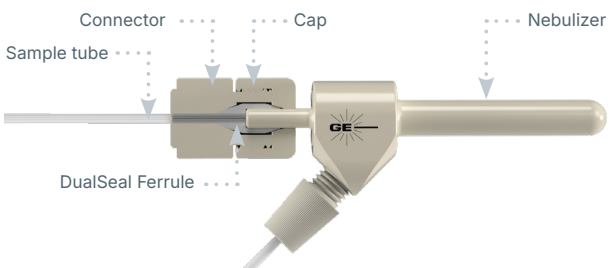
These easy-to-install kits are completely inert and configured for 1.6 mm (1/16") OD tubing, with PTFE ferrules that reliably seal with all commonly used capillary tubing materials, such as PFA, PTFE, FEP and PEEK. They provide a secure, zero-dead-volume direct connection to the liquid interface of a Glass Expansion nebulizer.

Nexus™ Universal Nebulizer Connection Kits	
Nexus™ Universal Connection Kit for all Glass Concentric U-Series or DC nebulizers	FT-16-8
Nexus™ Universal Connection Kit for Inert nebulizers	FT-16-8-X

P/N FT-16-8

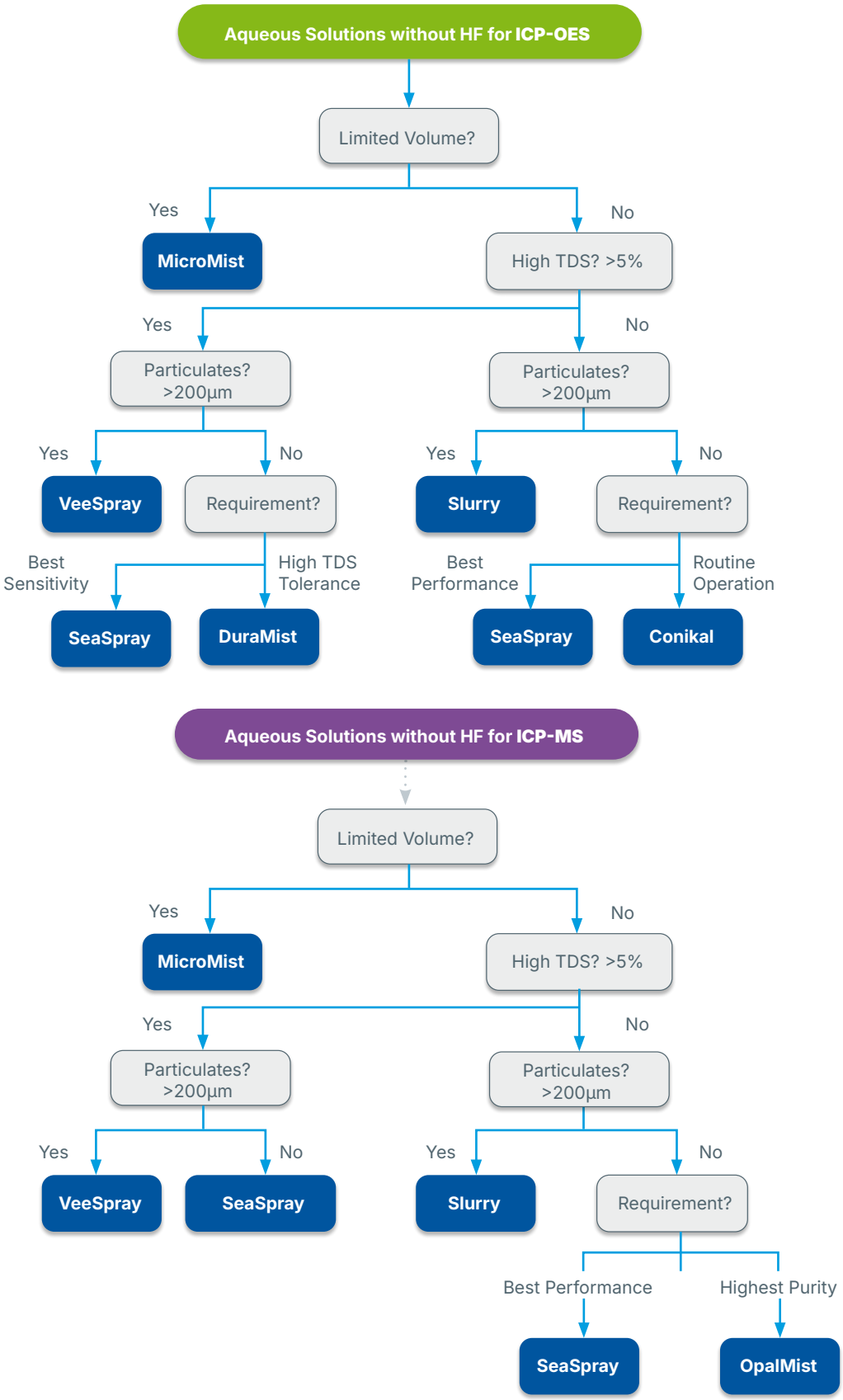


P/N FT-16-8-X

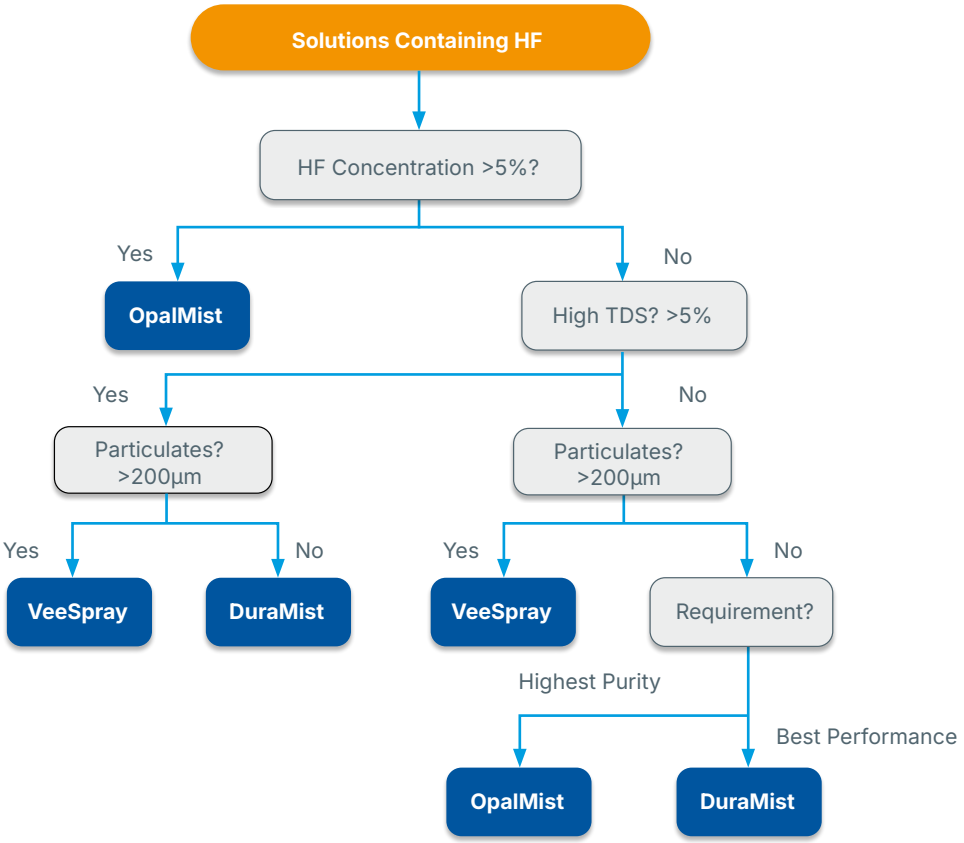


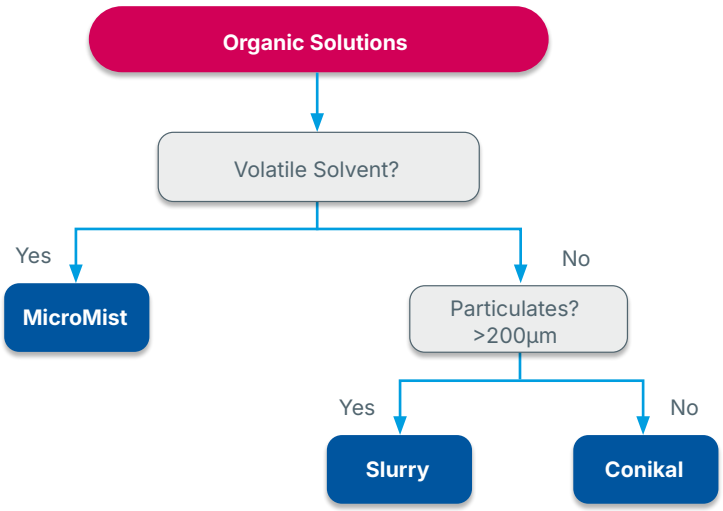
*The Nexus™ Universal Connection Kit is designed for U-Series (ARG) and DC (A##) nebulizers. It is not compatible with the older EzyFit (AR##) nebulizers.

Nebulizer Selection Guide



Nebulizer Selection Guide



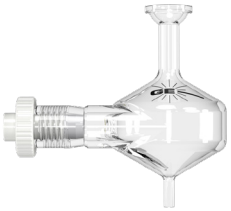


Introduction to Glass Expansion Spray Chambers

The spray chamber is a crucial component of the ICP sample introduction system since it has a profound effect on transport efficiency, precision, and washout. Glass Expansion revolutionized the spray chamber design for the ICP industry with the Tracey and Twister cyclonic spray chamber, providing improved efficiency and reduced washout. Glass Expansion's unique Helix CT nebulizer interface, provides a zero dead volume seal that results in higher throughput compared to non-Glass Expansion designs.

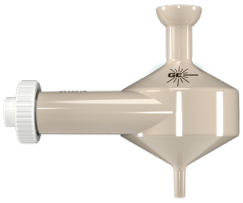
Spray Chamber Types

NEW Tracey™ BC



Internal Volume, mL:	30
Internal Baffle:	No
HF-resistant:	No
Precision:	Excellent
Purity:	Good
Material:	Glass

NEW Tracey™ BC PEEK



Internal Volume, mL:	30
Internal Baffle:	No
HF-resistant:	Yes
Precision:	Excellent
Purity:	Good
Material:	PEEK

Tracey™



Internal Volume, mL:	50
Internal Baffle:	No
HF-resistant:	No
Precision:	Very Good
Purity:	Good
Material:	Glass

Tracey™ TFE



Internal Volume, mL:	50
Internal Baffle:	No
HF-resistant:	Yes
Precision:	Good
Purity:	Good
Material:	PTFE

Twister™



Internal Volume, mL:	50
Internal Baffle:	Yes
HF-resistant:	No
Precision:	Excellent
Purity:	Good
Material:	Glass

Twister™ TFE



Internal Volume, mL:	50
Internal Baffle:	Yes
HF-resistant:	Yes
Precision:	Very Good
Purity:	Good
Material:	PTFE

Cinnabar™



Internal Volume, mL:	20
Internal Baffle:	No
HF-resistant:	No
Precision:	Very Good
Purity:	Good
Material:	Glass

Tracey™ PFA44



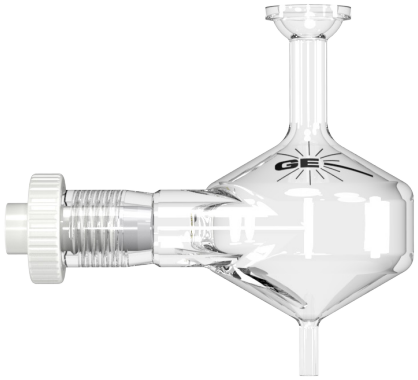
Internal Volume, mL:	44
Internal Baffle:	No
HF-resistant:	Yes
Precision:	Good
Purity:	Excellent
Material:	PFA

Twinnabar™

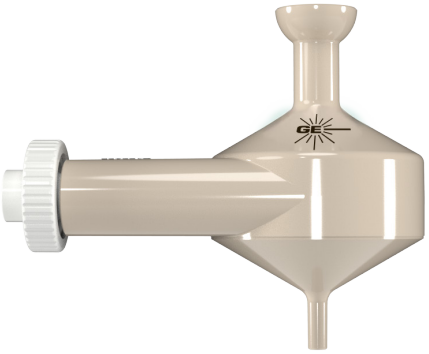


Internal Volume, mL:	20
Internal Baffle:	Yes
HF-resistant:	No
Precision:	Very Good
Purity:	Good
Material:	Glass

NEW High Efficiency Tracey™ BC Spray Chambers



Tracey™ BC Spray Chamber



Tracey™ BC PEEK Spray Chamber

The **High Efficiency Tracey™ BC Spray Chamber** is engineered to deliver exceptional analytical performance with simplified operation and long-term reliability. Its advanced cyclonic design and precision manufacturing ensure superior washout, excellent precision, and wide compatibility across a range of ICP-OES models.

Features of the Tracey™ BC Spray Chamber:

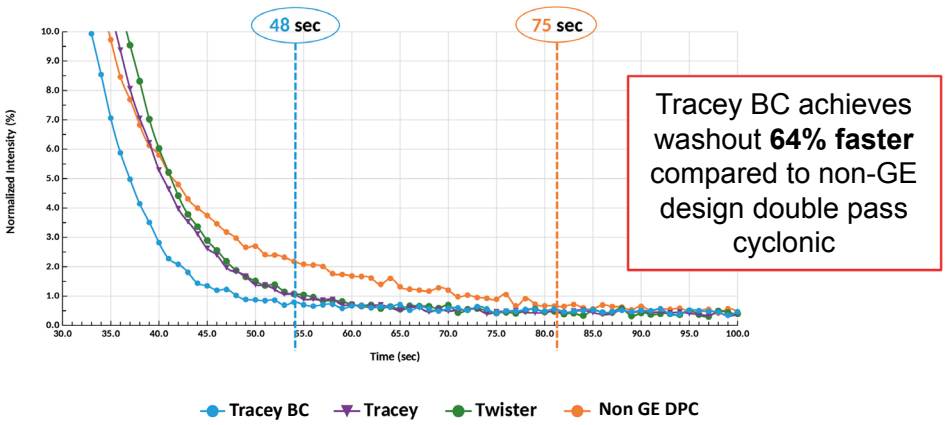
- **No O-Rings:** Reduces washout times and eliminates frequent replacements due to wear.
- **Excellent Precision:** Short-term noise on average 0.5% or better providing excellent repeatability and stability.
- **Cost-Effective Solution:** More affordable than traditional glass spray chambers, offering long-term savings without compromising quality.
- **Efficient Washout:** 30mL low-volume cyclonic chamber with Helix CT™ technology for improved performance.
- **Wide compatibility:** Fits most common ICP-OES models with E-Torch, D-Torch, and SDT/FDT. The Tracey BC spray chamber design is available in Glass, PEEK, PFA and Quartz.

The **Tracey BC™ PEEK Spray Chamber** combines the proven performance of the Tracey design with the durability and chemical resistance of PEEK construction. Engineered for demanding analytical environments, this spray chamber delivers outstanding HF resistance, superior wetting, and consistent precision without the need for internal surface treatments.

Features of the Tracey™ BC PEEK Spray Chamber:

- **HF Resistance:** With resistance up to 5%
- **Superior Wetting:** PEEK material maintains excellent wetting properties with routine laboratory cleaning.
- **Elegant Design:** Lightweight and compact, eliminating the need for additional spray chamber brackets.
- **No Internal Surface Treatment:** Unlike PTFE or PFA, this spray chamber requires no internal surface treatment while maintaining excellent precision.

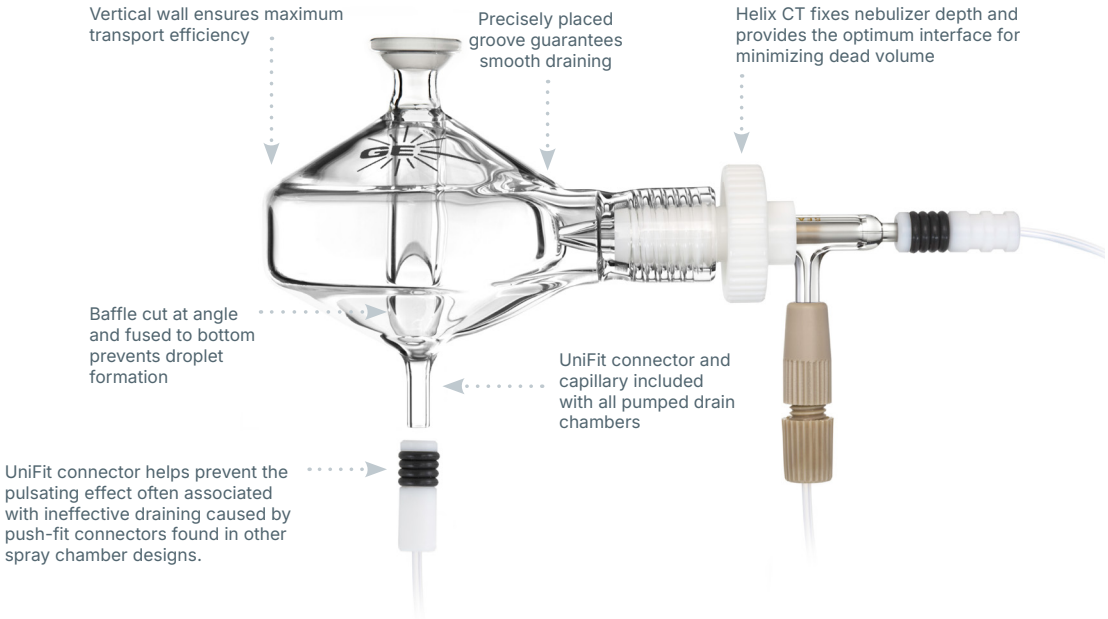
Washout Profiles for 1 ppm Hg:



Tracey BC achieves washout **64% faster** compared to non-GE design double pass cyclonic

Enhance your analytical workflow with a spray chamber designed for reliability, efficiency, and cost savings. Experience the benefits of **High Efficiency Tracey™ BC Spray Chamber!**

Helix CT™ - The Modern Interface Between Nebulizer and Spray Chamber



Traditionally, ICP-OES and ICP-MS sample introduction systems have relied on o-rings to form a gas-tight seal between the nebulizer and spray chamber. There are several drawbacks with an o-ring seal, such as:

- Potential for contamination due to dead volume around the o-ring seal.
- Chemical resistivity of strong acids and organic solvents.
- Even the most chemically resistant O-rings are prone to wear and tear and require regular replacement, which is time-consuming and often requires the use of tools.
- Bonding to the nebulizer can result in breakage.

Glass Expansion Helix CT spray chamber with ConstantTorque™ technology, provides a constant, reproducible, inert, gas-tight seal between the nebulizer and spray chamber.

The main feature of the Helix CT spray chamber is the **Helix locking screw with built-in torque control mechanism** that allows for a consistent seal of the PTFE ferrule against the nebulizer –making it impossible to overtighten or undertighten while ensuring a gas-tight seal each and every time.

A PressFit PTFE ferrule provides a chemically inert seal around the nebulizer, which is immune to strong acids and organic solvents routinely used in ICP sample preparation.

The Helix CT cyclonic spray chamber by Glass Expansion, therefore, eliminates all the drawbacks of the o-ring nebulizer seal, while improving user safety by preventing broken nebulizers.

Helix CT nebulizer interface is also simple to use:

- Fully insert the nebulizer into the Helix CT interface, until the nebulizer side-arm comes into contact with the molded-in positive stop.
- Hand-tighten the Helix CT locking screw until the ConstantTorque mechanism clicks, indicating a secure, gas-tight seal.

Glass Expansion equips all of its cyclonic spray chambers with the Helix CT interface as standard.

Part Number	Description
70-803-1439	Helix CT Locking Screw with Seal
70-803-1456	Helix CT Seal (PKT. 4)



HydraMist™ Simultaneous Cold Vapor/Pneumatic Nebulization Spray Chamber

The Glass Expansion HydraMist is a sensitive, simple-to-use spray chamber for Inductively Coupled Plasma (ICP) that allows simultaneous operation of both conventional pneumatic nebulization and cold-vapor/hydride generation. Cold vapor generation can provide more than 10-fold improvement in sensitivity on ICP for cold vapor forming elements such As, Sb, Se, and Hg. The generation of volatile species of these elements results in increased analyte loading of the analytical plasma giving lower detection limits.

The design of the HydraMist spray chamber is based upon Glass Expansion's industry-standard cyclonic spray chamber, giving excellent sensitivity and short-term analytical precision with fast washout. The HydraMist spray chamber features a secondary inlet port that mixes the aerosolized sample and liquid reductant inside the spray chamber for rapid conversion of the As, Sb, Se, and Hg analytes into volatile hydride species. The unique drain design ensures fast, complete removal of waste from the spray chamber, eliminating excess hydrogen build-up that causes sample reflux degrading analytical precision.

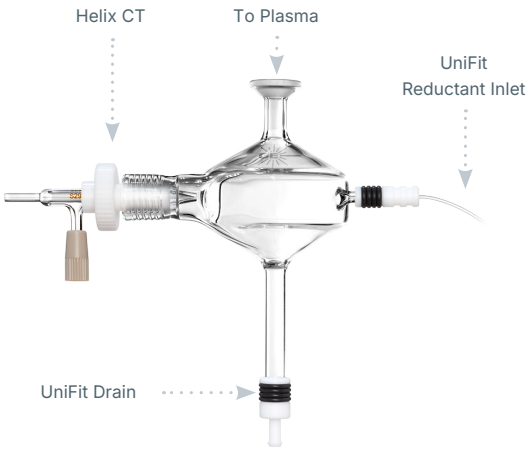
The HydraMist Spray Chamber Features:

- The same outstanding short-term analytical precision and washout as other Glass Expansion cyclonic spray chambers
- Fast and complete vapor phase formation of volatile As, Se, Sb, and Hg species for the best detection limits in hydride generation mode
- A unique drain design to eliminate hydrogen build-up and sample reflux that degrades short-term precision
- Economic, just replace your current spray chamber and keep your existing nebulizer
- Improve productivity by analysing non-hydride forming elements and cold vapor elements simultaneously, avoiding system shutdowns to change over between the hydride generator accessory and conventional pneumatic nebulization

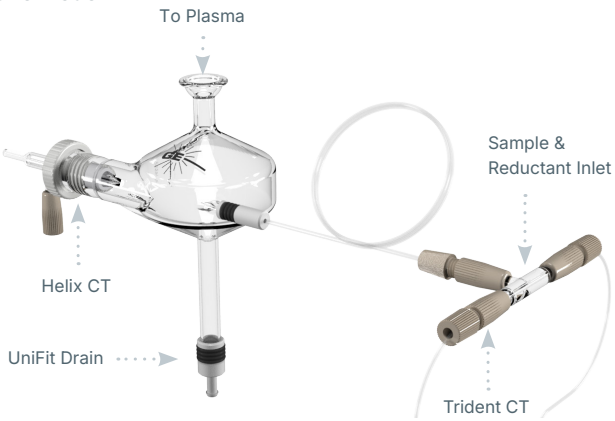
HydraMist Kit	
Agilent® 5000 ICP-OES Series	KT-1157
Analytik Jena® PQ 9000	KT-1157
PerkinElmer® Avio 200/500	KT-1157
PerkinElmer® Avio with HTS system	KT-2742
PerkinElmer® Optima 8000/8300 DV	KT-1162
PerkinElmer® Optima 4000/5000/7000 DV	KT-1162
Shimadzu® ICPE 9000/9800	KT-1157
Spectro™ Arcos II SOP/EOP and Blue EOP/SOP	KT-1160
Thermo Scientific™ PRO	KT-1160
Thermo Scientific™ Duo 7600	KT-1156
Thermo Scientific™ Duo 6000/7200/7400	KT-1179

* Note: Nebulizer is not included in HydraMist Kit.

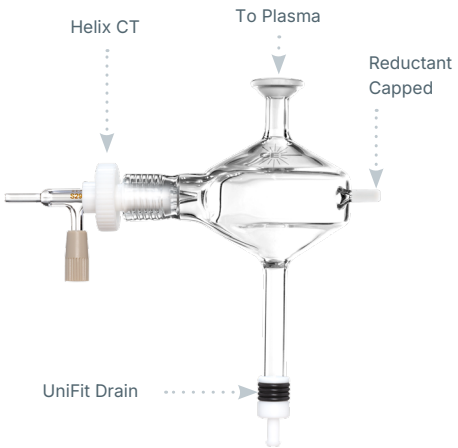
Simple Mode



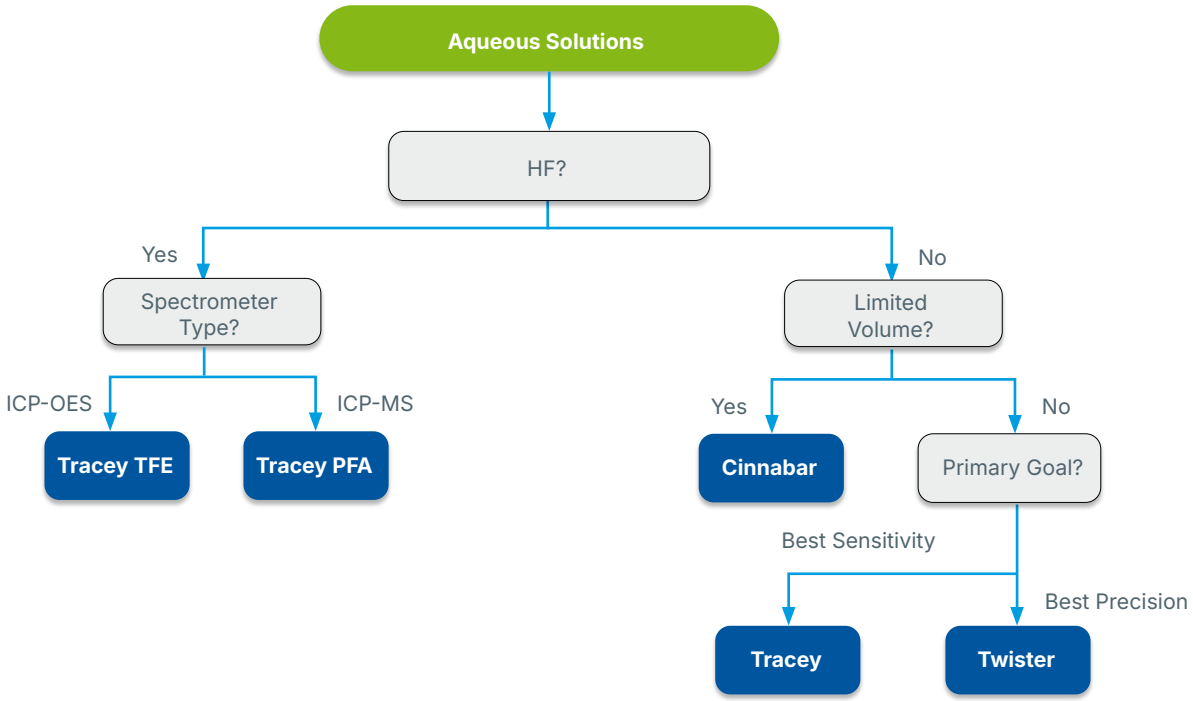
Sensitive Mode

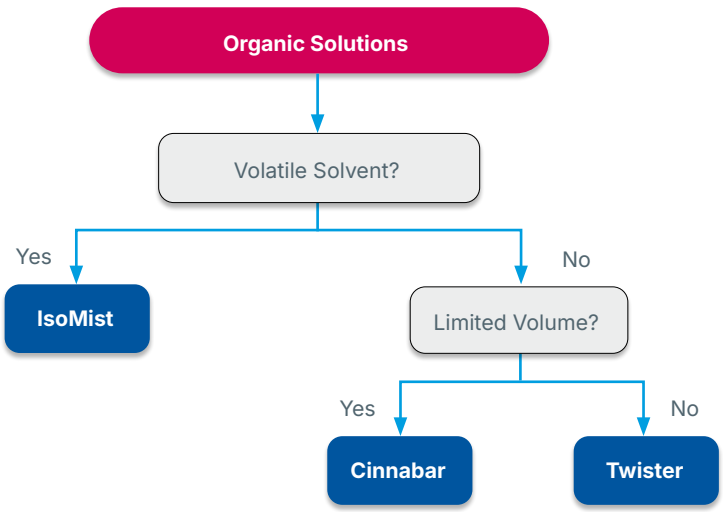


Pneumatic Nebulization



Spray Chamber Selection Guide





NEW E-Torch™

Engineered from advanced materials, the E-Torch™ delivers high performance and reliability, with precisely engineered inter-component geometry enhancing versatility across a wide range of sample types. Its interchangeable injectors (Quartz, Ceramic, Sapphire) and universal ball joint compatibility enable high adaptability. The optional all ceramic plasma tube supports HF, Organic and high TDS applications, while the demountable tube assembly simplifies maintenance and allows oven cleaning of carbon deposits, ensuring consistent analytical performance with reduced operating costs.

- **Made from Advanced Materials:** For exceptional chemical resistance and long-term durability.
- **Interchangeable Injectors:** Choose between Quartz, Ceramic, or Sapphire injectors for optimal performance across all sample types.
- **Universal Compatibility:** Connects seamlessly with standard ball joint spray chambers.
- **Performance You Can Trust:** Designed to maintain consistent analytical quality and reliability.
- **Precision Annular Spacing:** Superior control of the annular spacing which is critical to plasma stability.
- **All Ceramic Plasma Tube (Optional):** For HF, Organic and high TDS sample applications.
- **Simplified Maintenance:** The inner and outer tube assembly allows for simplified cleaning and oven removal of carbon deposits, reducing downtime and running costs.



Semi Demountable Torch



- Highly accurate construction
- Lower running cost than one-piece torches

Usually comprises a quartz torch body, a torch adaptor, an injector and GazFit connectors. All these parts are replaceable, making the semi demountable torch more cost effective than the fixed quartz torch. The design of the torch for standard analyses and HF analyses is the same, with only the injector material changing. For aqueous and organics analyses use a quartz injector, while for HF analyses use an alumina injector. Hence simply interchange between quartz and alumina injectors for appropriate analyses. Several internal diameters for both quartz and alumina injectors are also available.

Fixed Quartz Torches (One Piece)



- Precise quartz construction
- Wide range held in stock
- Simple to use
- Lowest initial cost

RF Coils – more efficient energy transfer

Glass Expansion Coils are produced from the highest quality raw materials and plated using prescribed methods to obtain maximum RF (Radio Frequency) transmission efficiency. There are numerous papers published on RF transmission with regard to conductor and coating resistance.

The torch box environment is highly corrosive, causing bare copper to corrode quickly and accumulate buildup, reducing coil conductivity and increasing resistance. Copper is used as the base material of all commercially available coils but different manufactures use different plating materials. Silver has the best conductance and gold the best corrosion resistance. Many platers use brighteners for a shiny finish, but high-purity silver and gold result in a dull appearance. Glass Expansion uses high-purity metals and polishes coils after plating for smoothness and reduced resistance, also enhancing visual appeal.

Why Change your RF Coil?

- Regular replacement of corroded coils reduces the load on the RF generating system.
- Changing corroded coils increases energy transfer, resulting in a more robust plasma and generally higher analytical line intensities.



Advantages of Glass Expansion RF Coils

- High quality and consistent plating of our coils promotes extended coil life.
- Each coil is supplied on a plastic former ensuring correct dimensions and easier installation.
- Each coil is supplied in a special protective container to ensure correct dimensions are maintained, and the coil arrives corrosion free.
- Optimal alignment of the RF coil mitigates outer tube devitrification.

Glass Expansion Installation Kits for RF Coils

- Incorrect alignment of the torch in the coil will dramatically reduce torch life. The Glass Expansion Installation Kits help ensure correct alignment and maximum torch life.
- Correct alignment of the RF Coil with respect to the torch body reduces devitrification of the outer tube.
- Re-usable alignment tools are available separately to ensure correct installation of the coil every time.
- Our easy to follow Do-It-Yourself installation instructions save you time, and the cost of a service call.



All kits contain:

- An Installation Kit – Aligns coil to torch mounting bracket.
- Required Spanner/s – Designed specifically for each instrument.
- Do-It-Yourself instructions.

ICP-MS Cones



Our ICP-MS interface cones are made from ultra-pure metals sourced from specialty smelters. Our highly experienced machinists use state-of-the-art CNC machines and electron beam welding, which offer precise control, deep penetration, and minimal heat-affected zones compared to other welding techniques, to provide cones with the finest tolerances for the highest quality.

We supply cones for all of the popular ICP-MS models and, to make sure you get all the support you need, we have a staff of technical experts and a fully equipped ICP-MS laboratory for testing and evaluation.

Satisfaction guarantee:

We guarantee our products to meet or exceed performance expectations.

Refurbishment:

Extend the life of your platinum cones with our refurbishment program. In many cases, a platinum cone can be refurbished multiple times and its lifetime greatly extended.

Platinum reclaim:

If your platinum cone cannot be refurbished, we will provide a rebate for the value of platinum in the cone.

ConeGuard

The ConeGuard Thread Protector protects the cone thread from corrosive cleaning solutions and greatly extends cone life.

ICP-MS Cone Resource Guide

Our ICP-MS Cone Resource Guide answers all the questions you ever had about cones. It includes the “why” and “how” of selecting the right cones, details on the advantages of different cone materials, and tips on care and maintenance.



Includes:

- About Glass Expansion ICP-MS Cones
- Platinum Cone Refurbishing
- Cone Material Guidelines
- Cones by ICP Model
- Cone Conditioning, Gasket & O-ring replacement guidelines
- Cone Maintenance

Click here to view the ICP-MS Cone Resource Guide.

IsoMist™ Programmable Temperature Spray Chamber



The IsoMist 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.

The IsoMist is a compact, convenient and maintenance-free temperature controlled sample introduction system for all ICP's.

Improved Analytical Stability with Precise Temperature Control

On the IsoMist, the spray chamber temperature is accurately controlled through an improved thermodynamic design using a multi-stage peltier device. The spray chamber temperature is settable in 1°C increments from -25°C to 80°C guaranteeing optimum conditions can be used for any application.

Reduce Oxide Interferences in ICP-MS

Using the IsoMist spray chamber at sub-ambient temperatures on an ICP-MS, the sample is cooled, less water vapor is transferred to the plasma resulting in lower oxide formation and reduced polyatomic (ArO, ArOH) interferences. Less oxides in the plasma mean fewer interferences, improving accuracy and detection limits.

Perfect for Naphtha and Gasoline Analysis

For volatile solvents, a lower sample introduction temperature reduces nebulization efficiency avoiding quenching of the plasma from solvent over-loading. With a minimum operating temperature of -25°C, analyzing volatile organic solvents such as naphtha and gasoline by ICP is even easier.

Improve Analytical Stability with Constant Spray Chamber Temperature

Fluctuations in the lab temperature affect sample viscosity and nebulization efficiency. Maintaining the sample introduction system at a constant and stable temperature improves analytical reproducibility, enhances throughput and lowers operating costs by reducing the need to re-run samples when a check standard drifts outside the acceptable upper or lower limits.

Elevated Sample Introduction Temperatures Enhances Sensitivity

The sensitivity for many analyses can be enhanced by operating the spray chamber at elevated temperatures - especially important for limited sample volumes. Heating the spray chamber also helps with the analysis of viscous samples such as lubricants and edible oils.

A Spray Chamber Optimized for Analytical Performance

The IsoMist incorporates a proven cyclonic spray chamber design in glass, quartz and HF resistant PFA with Helix CT interface. Compared to a Scott type spray chamber, cyclonic spray chambers are more sensitive and have better washout. The IsoMist includes the Helix CT nebulizer interface, which eliminates sample contamination and ensures easy nebulizer removal for routine nebulizer cleaning. The Helix CT nebulizer interface also has zero dead volume, reducing carry-over and improving washout between samples. With a positive stop built-in, Helix CT ensures correct and reproducible nebulizer insertion depth for constant nebulizer performance.



Easy to Use Software

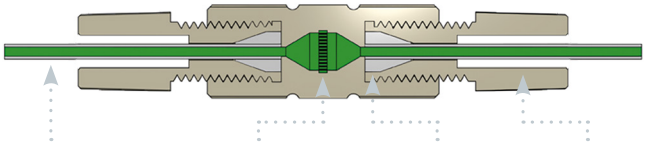
For maximum convenience, the IsoMist can be controlled from a PC via USB or Bluetooth wireless interface. The spray chamber temperature can be monitored during an analytical run with time vs temperature plot on your PC screen.

Elegant, Ergonomic and Compact

The IsoMist is an elegant, compact, stand-alone system manufactured from materials resistant to attack from acids and solvents commonly used in ICP analysis. By using a peltier to maintain the spray chamber temperature, the messy, noisy and high-maintenance refrigerated circulating baths used with jacketed spray chambers has been eliminated. The compact design means all IsoMist Programmable Temperature Controlled Spray Chambers are compatible with virtually any ICP-OES or ICP-MS.

Guardian™ In-Line Sample Filter





If there are particulates in your samples, there is a risk that they may get trapped in the narrow bore sample tubing or within the nebulizer. The Guardian In-Line Sample Filter provides a simple and effective way to eliminate this risk. This filter is easily inserted in the sample tubing between the autosampler probe and the nebulizer. It incorporates a 120 micron PolyComb filter and is suitable for use with 1/16 inch (1.6mm) OD or 1.3mm OD sample tubing.

The purpose-built clog-resistant design is ideal for ICP samples. Unlike sintered or frit style filters, the linear honeycomb structure makes the PolyComb filter resistant to clogging from particulates. Any particle build-up is easily removed by back-flushing using the Eluo Adaptor 70-803-1160. And the PEEK material is suitable for use with all of the most common ICP solutions.

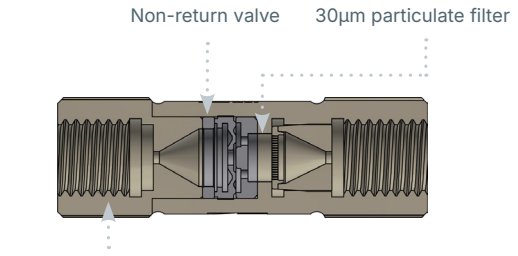


Eluo Adaptor For In-Line Filter

Guardian In-Line Sample Filter	
In-Line Filter	70-803-1108
Eluo Adaptor for In-Line Filter	70-803-1160
Replacement Viton O-rings for Eluo Adaptor (PKT 10)	70-V-009
Fitting Seal 1/16 (PKT 10)	70-803-0749
Fitting Seal 1.3mm (PKT 10)	70-803-0748
Ratchet Connector	70-803-1350

Guardian™ In-Line Non-Return Gas Filter





The new Guardian In-line Non-Return Gas Filter provides protection for your ICP system in two ways:

1. A non-return valve prevents acidified sample or rinse solution syphoning into the instrument gas box.
2. 30µm PolyComb filter protects the nebulizer from particulates in the instrument gas supply.

The Guardian In-line Non-Return Gas Filter is positioned between the Argon inlet on the Direct Connection nebulizer and the gas supply fitting on the instrument. The In-line Non-Return Filter has a one-way valve that allows argon to flow from the instrument into the nebulizer, but prevents liquid syphoning into the instrument. A unique PolyComb 30µm filter design protects the nebulizer from particulates from the gas supply or from worn or damaged fittings in the gas lines. Unlike Sintered or Frit style filters, the linear honeycomb structure makes PolyComb most resistant to particulate and dissolved solid clogging.

Syphoning of the sample or rinse solution into the nebulizer argon control module on your ICP can occur at the end of an analytical run when the nebulizer gas pressure is turned off and there is liquid in the sample flow path. It is made worse if the autosampler probe stays in the rinse position at the end of a run.

An overlooked issue when using an autosampler for unattended overnight runs is its potential to silently and invisibly damage your ICP instrument. Acidified solution in the instrument's argon control module can corrode electronic sensors in mass flow controllers and damage regulators, leading to costly repairs and unplanned downtime.

*The Guardian non-return valve is intended for use with gas lines only.

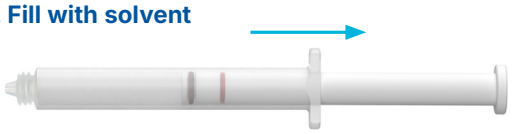
Guardian In-Line Non-Return Gas Filter	
Guardian DC In-Line Non-Return Gas Filter	70-803-1942
Guardian In-Line Non-Return Gas Filter	70-803-1362

*Choose P/N 70-803-1942 if using a DC nebulizer model.

Eluo™ Nebulizer Cleaning Tool

As easy as 1, 2, 3

1. Fill with solvent



2. Attach barrel and insert nebulizer



3. Clean nebulizer



Particle build-up in a nebulizer capillary and tip causes sample flow to be constricted, reducing nebulizer efficiency and performance. Now, blocked nebulizers can be safely and easily restored to optimum performance with a revolutionary cleaning instrument – the Eluo.

The Eluo is designed 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 or shattered nebulizers in ultrasonic baths. Use the Eluo regularly to maintain nebulizer performance and prolong nebulizer life. Every lab should have an Eluo.

The Eluo can also be conveniently used to clean the In-Line Particle Filter P/N 70-803-1108 with the addition of Adaptor P/N 70-803-1160.

We have found that using a dilute concentration of Fluka RBS-25 (manufactured by Sigma-Aldrich, and is available from most suppliers of laboratory chemicals) is the best cleaning solution. Stubborn clogs may require an overnight soak or additional cleaning with nitric acid.

Eluo Nebulizer Cleaning Tool	
Eluo for Glass concentric Nebulizers	70-ELUO
Eluo HF for OpalMist or DuraMist	70-ELUO-OPD
Eluo Barrel	703-0058
Eluo Plunger	70-703-0070
Eluo HF Nebulizer Holder	70-803-0932
Eluo Nebulizer Holder for Glass concentric Nebulizers	70-703-0069
Eluo Adaptor for In-Line Filter	70-803-1160
O-ring Kit for Eluo (2 sets)	70-0806

Elegra™ Argon Humidifier



Click here to view the Elegra™ Landing page and ordering information.

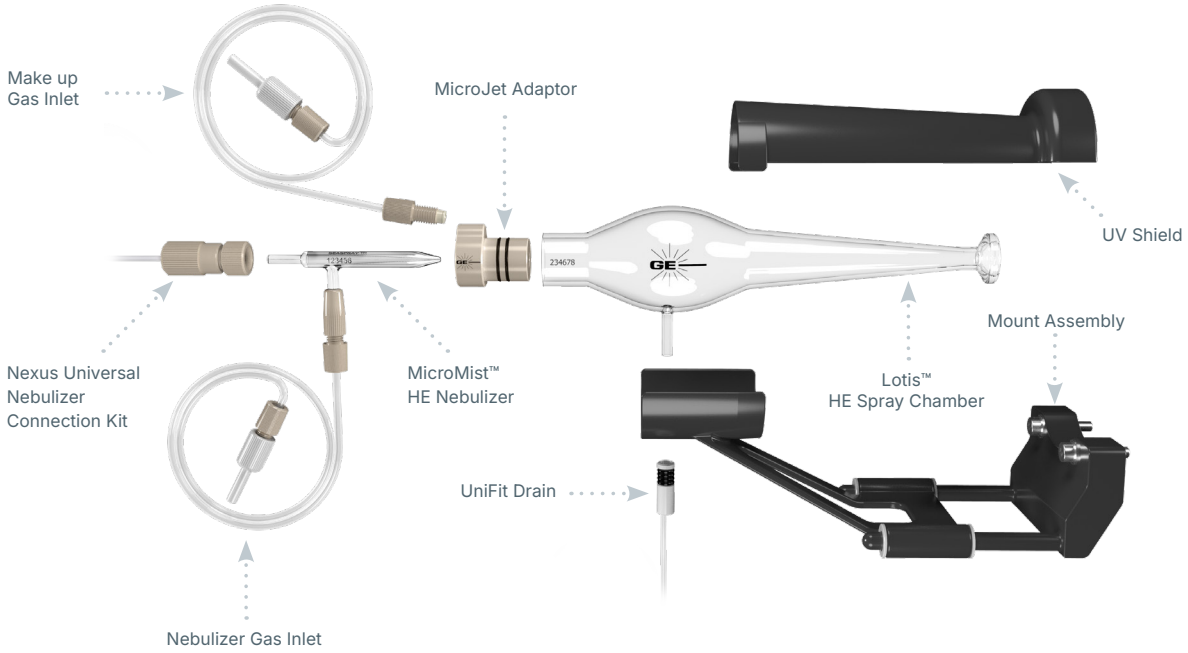
An Argon Humidifier is commonly used in ICP analyses involving samples with high concentrations of dissolved solids. It helps to alleviate salt deposits in the nebulizer and torch injector, allowing uninterrupted and maintenance-free operation.

- Compact, cost-effective design.
- No heating or electric power required.
- Non-pressurized water reservoir.
- An easy-to-use bypass switch allows you to take the Elegra off-line without disconnecting argon lines. (Not available with Elegra Dual)
- Highly efficient membrane humidification technology.
- Improved signal stability for samples with high TDS.
- Simple to install, use and maintain.
- Improves productivity by reducing down-time for cleaning.
- Inert metal-free construction eliminates contamination.
- Maximum and minimum fill marks ensure that you are always operating under optimum conditions.
- Compatible with all ICP-OES and ICP-MS models. Direct connection to argon outlet provided for most models.
- Elegra Dual configuration available for ICP-MS instruments using auxiliary argon.

Elegra Argon Humidifier	
O-ring for Capricorn or Elegra Cap (PKT 3)	70-V-225
Elegra Stand	70-803-1581
Elegra Membrane	70-803-1286
Elegra Reservoir	70-803-1257

High Efficiency Sample Introduction System (HE-SIS)

Originally designed as a highly efficient single-cell sample introduction system, Glass Expansion's HE-SIS has been redesigned to provide superior performance across a wide variety of applications, including single-cell, single particle, nanoparticle, and low-volume sample studies, with up to 95% transport efficiency.



Key HE-SIS Components

MicroMist™ High Efficiency (HE) Nebulizer

This specially designed concentric glass nebulizer is based on our popular MicroMist design, capable of efficiently nebulizing limited sample volumes at low sample and argon gas flow rates.



Patent-pending MicroJet™ Gas Adaptor

Our patent-pending MicroJet gas adaptor shapes the nebulizer aerosol plume to reduce sample deposition on the spray chamber walls and enhance transport efficiency.



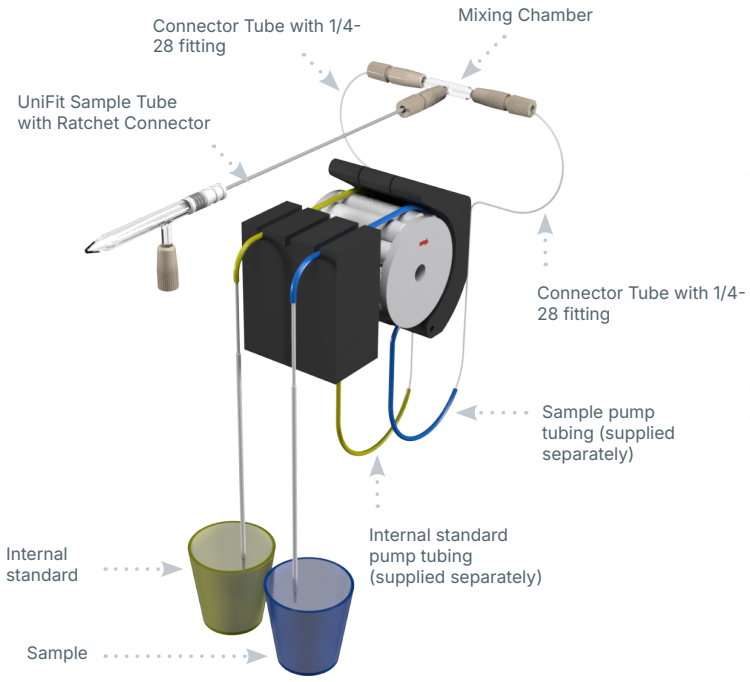
Lotis™ High Efficiency (HE) Spray Chamber

The Lotis HE spray chamber directly couples to the ICP-MS torch, providing the highest transport efficiency and excellent washout between samples.



High Efficiency Sample Introduction System	
Agilent® ICP-MS	KT-1155
Analytik Jena® PlasmaQuant MS	KT-2747
PerkinElmer® NexION 1000/2000/2200/5000	KT-1184
PerkinElmer® NexION 300/350	KT-1204
Thermo Scientific™ Q/RQ/TQ ICP-MS	KT-1172
Thermo Scientific™ Neoma MC-ICP-MS	KT-1172
Thermo Scientific™ X Series	KT-1213
Thermo Scientific™ Neptune/Element	KT-1215
TOFWERK icpTOF	KT-1172
Nu ATTOM	KT-1205
Nu Instruments® Vitesse TOF-ICP-MS	KT-1219

Trident CT™ In-Line Reagent Additions Kits



Internal standards are often used in ICP Spectrometry to improve stability. The internal standardization process involves the addition of a known concentration of a particular element to every sample and can be a very time-consuming procedure. The Glass Expansion Trident Kits allow the internal standard to be automatically mixed with each sample during sample introduction, saving considerable sample preparation time.

The Trident CT mixing chamber is based on the industry-proven design of the Trident, but with the addition of Glass Expansion's ConstantTorque (CT) to provide a simple-to-use, leak-free connection for both the internal standard and sample, every time.

The heart of the kit is the mixing chamber, designed with zero dead volume CT fittings. With other mixing chambers, worn or improperly fitted connections leak, inject a stream of air bubbles into the nebulizer flow, degrading short-term analytical precision (%RSD). By using CT ratchet-style fittings, the Trident CT eliminates air leaks, optimizing analytical performance.

The Trident CT features:

- Compact, efficient mixing chamber ensures complete mixing of the sample and reagent.
- CT fittings for a durable, leak-free seal on all connections.
- Zero dead volume connections.
- Completely modular so that damaged or lost components can easily be replaced.

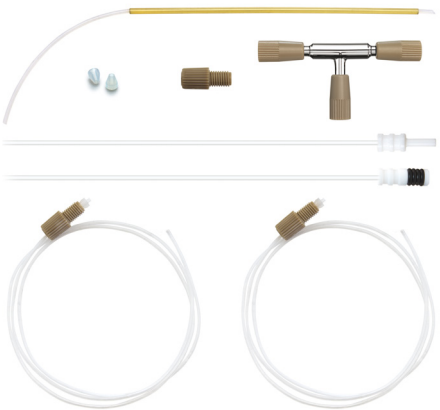
Check the Trident Dilution Factor Calculator on our website to find out the sample and internal standard dilution factors for selected combinations of pump tubing.

The peristaltic pump tubing is not supplied as part of the Internal Standard Kit but can be ordered separately.

In-Line Reagent Additions Kits	
Trident CT In-Line Reagent Additions Kit	60-703-1179
Trident Internal Standard Kit for HF (original design)	60-808-1150

Click here to view the consumables for the Trident CT™ In-Line Reagent Additions Kits.

Trident CT In-Line Reagent Additions Kit for non-HF solutions:



Trident Internal Standard Kit for HF solutions:



Laser Ablation

P/N: 21-809-4309



P/N: 70-803-1600



P/N: 31-808-4034



P/N: 20-809-4550



P/N: 21-809-2801



P/N: 31-808-4289



P/N: 31-808-4107



P/N: 31-808-3863
OD: 4mm
ID: 2mm



S13 (13 mm) cup Adaptors

P/N: 31-800-1007
ID: 4mm



P/N: 21-809-4140



P/N: 21-809-0965C
OD: 6mm
ID: 4mm



P/N: 31-808-3045
OD: 4mm
ID: 2mm



GazFit Connectors



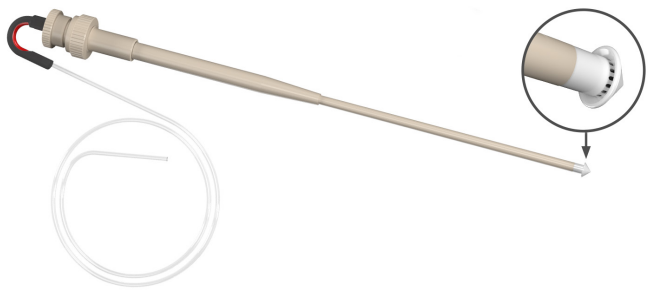
GazFit Union Connectors (for rigid walled tubing)	
GazFit Union 4mm (PKT.2)	GAZ-04U
GazFit Union 6mm (PKT.2)	GAZ-06U
GazFit Union 8mm (PKT.2)	GAZ-08U



Standard GazFit Connectors (for soft walled tubing)	
GazFit Connectors for 4mm OD side arm (PKT.4)	GAZ-04
GazFit Connectors for 5mm OD side arm (PKT.4)	GAZ-05
GazFit Connectors for 6mm OD side arm (PKT.4)	GAZ-06
GazFit Connectors for 8mm OD arm (PKT.2)	GAZ-08
GazFit Connectors, 2 for 6mm OD side arms, 2 for 4mm OD side arms (PKT.4)	GAZ-0604
GazFit Connectors for 6mm OD side arm with connection for 1/8inch ID tubing (PKT.4)	GAZ-06-3.2B

Guardian™ Autosampler Probes

The unique design of the robust tip—which combines drip-resistance and built-in particle filtering—helps to prevent cross-contamination during probe movement and blockages in your nebulizer and capillary tubing. Constructed entirely from Ceramic, PEEK and PTFE, the Guardian autosampler probe also provides exceptional resistance to strong acids and solvents. The Guardian probe has an ID of 1.0mm, with interchangeable UniFit sample capillaries that are available in IDs of 0.3, 0.5, 0.75 and 1.0mm.



Benefits:

- Proprietary mechanical finish provides superior wetting characteristics.
- Robust tip design prevents crushed and damaged tips due to misalignment.
- Drip-resistance prevents cross contamination of samples, especially with oils.
- Built-in particle filtering holds back particulates from blocking the line.
- Completely inert design, Ceramic, PEEK and PTFE construction.
- Interchangeable UniFit™ sample lines available in various IDs (e.g. 0.3, 0.5, 0.75 & 1.0mm)
- Designed to suit Teledyne Cetac®, Agilent®, PerkinElmer®, Shimadzu®, Aim Lab, ESI and Thermo Fisher Scientific™ Autosamplers.

Guardian Probe with Connecting Line (Red)	
Guardian Probe for SPS3/SPS4/AIMS, 0.75mm	70-803-1957
Guardian Probe Cetac ASX-200/500/800, 0.75mm	70-803-1803
Guardian Probe Cetac ASX-7400, 7600 Series, 0.75mm	70-803-2940
Guardian Probe for PerkinElmer S20 Series, 0.75mm	70-803-2097
Guardian Probe for PerkinElmer S10, 0.75mm	70-803-2851
Guardian Probe for PerkinElmer AS93, 0.75mm	70-803-2836
Guardian Probe for Shimadzu AS-10 & AS-20 with Arm Assembly, 0.75mm	70-803-2872
Guardian Probe for Thermo iSC-65, 0.75mm	70-803-2106
Guardian Probe for ESI SC-DX Series, 0.75mm	70-803-2953

Guardian Probe only	
Guardian Probe for SPS3/SPS4/AIMS	70-803-2008
Guardian Probe for Cetac ASX-200/500/800 Series	70-803-1787
Guardian Probe for Cetac ASX-7400, 7600 Series	70-803-2937
Guardian Probe for Cetac ASX-112FR	70-803-2029
Guardian Probe for PerkinElmer S20 Series	70-803-2754
Guardian Probe for PerkinElmer S10	70-803-2849
Guardian Probe for PerkinElmer AS93	70-803-2819
Guardian Probe for Shimadzu AS-10 & AS-20	70-803-2860
Guardian Probe for Thermo iSC-65	70-803-2837
Guardian Probe Assembly for ESI SC-DX Series	70-803-2961

Probe Connecting Lines for all Autosamplers (excluding ASX-112FR)	
Probe Connecting line 1.0mm ID (Green)	70-803-1721
Probe Connecting Line 0.75mm ID (Red)	70-803-1714
Probe Connecting Line 0.5mm ID (Blue)	70-803-1852
Probe Connecting Line 0.3mm ID (Black)	70-803-1853

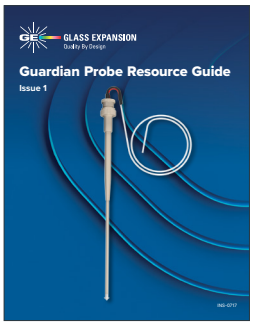
Probe Connecting Lines for ASX-112FR	
Probe Connecting Line 0.18mm ID (Black)	70-803-2030
Probe Connecting Line 0.18mm ID with EzyFit (Green/Black)	70-803-2085

Click here to view the Guardian™ Autosampler Probe landing page, ordering information, and comparison videos.

Guardian Probe Resource Guide

Your all-in-one Guardian Probe reference. Everything you need, in one place.

- **Ordering right the first time:** Organized by autosampler brand, so you know exactly which model fits your system.
- **Fix problems fast:** Installation, performance, and common issues, with clear corrective actions.
- **Make your probe last longer:** Proper care and maintenance, step by step.
- **Never get caught without one:** Know exactly when (and why) you'll need spare parts.



Click here to view the Guardian Probe Resource Guide

Autosampler Probes

Suitable for Cetac ASX-200/500/800 Series and PerkinElmer S20 Series	
PTFE Encapsulated Carbon Fibre Probe 0.25mm ID with EzyFit	70-803-1088
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.25mm ID	70-803-1523
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID with UniFit	70-803-1380
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID with ratchet fitting	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1880
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID with ratchet fitting	70-803-0793
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-1879



For Cetac ASX 110	
PFA sheathed Autosampler Probe 0.25mm ID with EzyFit	70-803-1072
PFA sheathed Autosampler Probe 0.25mm ID with UniFit	70-803-1073
PTFE Sheathed Carbon Fibre Probe 0.18mm ID with UniFit	70-803-1684
PTFE Encapsulated Carbon Fibre Probe 0.3mm ID with UniFit	70-803-1191
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-1182

For Agilent® SPS 3/SPS 4	
PTFE Encapsulated Carbon Fibre Probe 0.25mm ID	70-803-0910
PTFE Encapsulated Carbon Fibre Probe 0.50mm ID	70-803-0909
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-0908
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0853

For Agilent® I-AS	
PTFE Encapsulated Carbon Fibre Probe 0.25mm ID with UniFit, 1100mm total length	60-703-1010
PTFE Encapsulated Carbon Fibre Probe 0.3mm ID with UniFit, 686 mm total length	60-703-1009
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	60-703-0533

For PerkinElmer® S10 or AS93+	
PTFE Encapsulated Carbon Fibre Probe 0.25mm ID	70-803-1071
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-1440
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0816

For Shimadzu®	
PTFE Sheathed Carbon Fibre Probe 0.75mm ID with UniFit, for Shimadzu® AS-10	70-803-1477

Glass DC Nebulizers

SeaSpray
400µL/min uptake A13-1-USS04

MicroMist
400µL/min uptake A13-1-UM04

Conikal
1mL/min uptake A13-1-UC1



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A13-1-QSS1



DC Nebulizers for HF

DuraMist
400µL/min uptake A13-1-DM04



OpalMist
400µL/min uptake A13-1-PFA04



Peltier Controlled Cyclonic Spray Chambers

Glass Spray Chamber	KT-1116
Quartz Spray Chamber	KT-1116Q
PFA Spray Chamber	KT-1116P



Spray Chambers

High Efficiency Sample Introduction System
HE-SIS for Agilent ICP-MS KT-1155



***Twister**
50mL Cyclonic with Aux. 20-809-2574HE

*Requires adaptor KT-1104.



Quartz Scott Style
For 7900 UHMI 20-809-4144



Spray Chambers for HF

***Tracey PFA44**
44ml Cyclonic with Aux. 20-809-2578
Spray Chamber Adaptor KT-1104

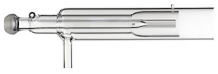
*Requires adaptor KT-1104.



Torches

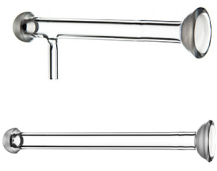
Quartz Torches

with 1.0mm Injector	30-807-0558
with 1.5mm Injector	30-807-0557
with 2.0mm Injector	30-807-3608
with 2.5mm Injector	30-807-0556



Torch Options

Quartz Torch Bonnet	31-808-2577
Quartz Connector with Dilution Port	31-808-3217
Quartz Connector with 45deg Dilution Port	31-808-3280
Straight Quartz Connector	31-808-3288
Clamp (PKT 2)	70-803-0846



Torches (continued)

Semi-Demountable Torch

with 2.4mm Quartz Injector 30-808-3853



Torch Options

Semi-Demountable Torch body	31-808-3857
1.0mm Tapered Quartz Injector	31-808-4172
1.5mm Tapered Quartz Injector	31-808-4173
2.4mm Tapered Quartz Injector	31-808-4168
1.0 mm Tapered Alumina Injector	31-808-4169
1.5 mm Tapered Alumina Injector	31-808-4170
2.4mm Tapered Alumina Injector	31-808-3855
2.4mm Sapphire Capillary Injector	31-808-4159
PEEK Injector Adaptor	31-808-4478



Viton O-rings for FDT/SDT ball joints (PKT 10) 70-V-011



RF Coils

Copper	70-900-7800C
Silver	70-900-7800S
Gold	70-900-7800G



RF Coil Installation Kit 70-900-7500T



Cones

Sampler Cones

Nickel Sampler	AT7701-Ni
Nickel Sampler with Nickel plated base	AT7701-Ni/Ni
Aluminium Sampler	AT7701-Al
Platinum Sampler	AT7706-Pt
Platinum Sampler (18 mm Insert)	AT7706A-Pt
Platinum Sampler with Nickel plated base	AT7706-Pt/NiP
Platinum Sampler with solid Nickel base	AT7706-Pt/Ni
Platinum Sampler (15mm insert) with Nickel base	AT7706B-Pt/Ni
Platinum Sampler with Nickel plated base (Extended Life)	AT7706L-Pt/NiP



Skimmer Cones

Nickel Skimmer for x-lens	AT7902X-Ni
Aluminium Skimmer for x-lens	AT7902X-Al
Platinum Skimmer for x-lens	AT7908X-Pt



Cones (continued)

Skimmer Cones (continued)

Platinum Skimmer with Nickel base for x-lens	AT7908X-Pt/Ni
Nickel Skimmer for s-lens	AT7702S-Ni
Copper Skimmer for s-lens	AT7702S-Cu
Platinum Skimmer for s-lens	AT7708S-Pt
Platinum Skimmer with Nickel base for s-lens	AT7708S-Pt/Ni
Platinum Skimmer with Nickel base for m-lens	AT8908M-Pt/Ni



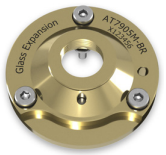




Cone Options

Skimmer Cone Guard	70-803-1004
Long Life Pt Shield Plate	AT5004
Graphite Gasket (PKT 3)	AT7703
Retaining Ring	AT7704
Brass Skimmer Adaptor base for m lens	AT7905M-BR
Brass Skimmer Adaptor base for x lens	AT7905X-BR
Stainless Steel Skimmer Adaptor base for x lens	AT7905X-SS
Captive Screw M4 for Skimmer Base (PKT 3)	70-803-2061







Common Accessories

Elegra Argon Humidifier

Elegra Dual Argon Humidifier	70-803-1273
Elegra Stand	70-803-1581





Common Accessories (continued)

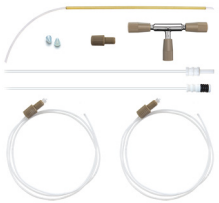
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Agilent I-AS

PTFE Encapsulated Carbon Fibre Probe 0.25mm ID	60-703-1010
PTFE Encapsulated Carbon Fibre Probe 0.3mm ID	60-703-1009



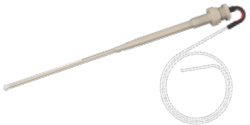
For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793



For SPS 3/SPS 4

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1957
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-0908
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0853



Glass DC Nebulizers

SeaSpray
400µL/min uptake A13-1-USS04

MicroMist
400µL/min uptake A13-1-UM04

Conikal
1mL/min uptake A13-1-UC1



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A13-1-QSS1



DC Nebulizers for HF

DuraMist
400µL/min uptake A13-1-DM04



OpalMist
400µL/min uptake A13-1-PFA04



Peltier Controlled Cyclonic Spray Chambers

Glass Spray Chamber	KT-1116
Quartz Spray Chamber	KT-1116Q
PFA Spray Chamber	KT-1116P



Spray Chambers

High Efficiency Sample Introduction System
HE-SIS for Agilent ICP-MS KT-1155



***Twister**
50mL Cyclonic with Aux. 20-809-2574HE

*Requires adaptor KT-1104.



Quartz Scott Style
For 7900 UHMI 20-809-4144



Spray Chambers for HF

***Tracey PFA44**
44ml Cyclonic with Aux. 20-809-2578
Spray Chamber Adaptor KT-1104

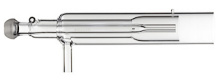
*Requires adaptor KT-1104.



Torches

Quartz Torches

with 1.0mm Injector	30-807-0558
with 1.5mm Injector	30-807-0557
with 2.0mm Injector	30-807-3608
with 2.5mm Injector	30-807-0556



Torch Options

Quartz Torch Bonnet	31-808-2577
Quartz Connector with Dilution Port	31-808-3217
Quartz Connector with 45deg Dilution Port	31-808-3280
Straight Quartz Connector	31-808-3288
Clamp (PKT 2)	70-803-0846





Torches (continued)

Semi-Demountable Torch

with 2.4mm Quartz Injector	30-808-3853



Torch Options

Semi-Demountable Torch body	31-808-3857
1.0mm Tapered Quartz Injector	31-808-4172
1.5mm Tapered Quartz Injector	31-808-4173
2.4mm Tapered Quartz Injector	31-808-4168
1.0 mm Tapered Alumina Injector	31-808-4169
1.5 mm Tapered Alumina Injector	31-808-4170
2.4mm Tapered Alumina Injector	31-808-3855
2.4mm Sapphire Capillary Injector	31-808-4159
PEEK Injector Adaptor	31-808-4478



Viton O-rings for FDT/SDT ball joints (PKT 10)	70-V-011



RF Coils

Copper	70-900-7800C



Silver	70-900-7800S



Gold	70-900-7800G



RF Coil Installation Kit	70-900-7500T



Cones

Sampler Cones

Nickel Sampler	AT7701-Ni



Nickel Sampler with Nickel plated base	AT7701-Ni/Ni



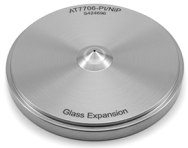
Aluminium Sampler	AT7701-Al



Platinum Sampler	AT7706-Pt
Platinum Sampler (18 mm Insert)	AT7706A-Pt



Platinum Sampler with Nickel plated base	AT7706-Pt/NiP



Platinum Sampler with solid Nickel base	AT7706-Pt/Ni
Platinum Sampler (15mm insert)with Nickel base	AT7706B-Pt/Ni
Platinum Sampler with Nickel plated base (Extended Life)	AT7706L-Pt/NiP



Skimmer Cones

Nickel Skimmer for x-lens	AT7902X-Ni



Aluminium Skimmer for x-lens	AT7902X-Al



Platinum Skimmer for x-lens	AT7908X-Pt



Cones (continued)

Skimmer Cones (continued)

Platinum Skimmer with Nickel base for x-lens	AT7908X-Pt/Ni
Nickel Skimmer for s-lens	AT8902S-Ni
Copper Skimmer for s-lens	AT8902S-Cu
Platinum Skimmer for s-lens	AT8908S-Pt/Cu
Platinum Skimmer with Nickel base for s-lens	AT8908S-Pt/Ni
Platinum Skimmer with Nickel base for m-lens	AT8908M-Pt/Ni







Cone Options

Skimmer Cone Guard	70-803-1004
Long Life Pt Shield Plate	AT5004
Graphite Gasket (PKT 3)	AT7703
Retaining Ring	AT7704



Brass Skimmer Adaptor base for x lens	AT8905X-BR
Stainless Steel Skimmer Adaptor base for x lens	AT8905X-SS



Common Accessories

Elegra Argon Humidifier

Elegra Dual Argon Humidifier	70-803-1273



Elegra Stand	70-803-1581



Guardian In-Line Filters

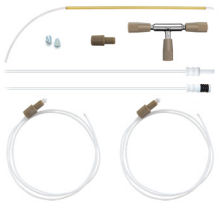
Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Common Accessories (continued)

Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool	70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Agilent I-AS

PTFE Encapsulated Carbon Fibre Probe 0.25mm ID	60-703-1010
PTFE Encapsulated Carbon Fibre Probe 0.3mm ID	60-703-1009



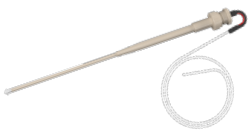
For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793



For SPS 3/SPS 4

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1957
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-0908
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0853



Glass DC Nebulizers

SeaSpray
400µL/min uptake A13-1-USS04

MicroMist
400µL/min uptake A13-1-UM04

Conikal
1mL/min uptake A13-1-UC1



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A13-1-QSS1



DC Nebulizers for HF

DuraMist
400µL/min uptake A13-1-DM04



OpalMist
400µL/min uptake A13-1-PFA04



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber

IsoMist XR Kit	KT-1103-XR
Comprises:	
Glass Twister Spray Chamber	21-809-3186
Assembly (ROL)	20-809-5176
Mount	21-809-3765
Make-up Gas Adaptor	21-809-4024
Metal Ball Joint Clip	JC-13
UniFit Connector (PKT. 3)	UFT-2-86





Peltier Controlled Cyclonic Spray Chambers

For Agilent 7800

Glass Spray Chamber	KT-1206
Quartz Spray Chamber	KT-1206Q
PFA Spray Chamber	KT-1206P



For Agilent 7850

Glass Spray Chamber	KT-1116
Quartz Spray Chamber	KT-1116Q
PFA Spray Chamber	KT-1116P



Spray Chambers

High Efficiency Sample Introduction System
HE-SIS for Agilent ICP-MS KT-1155



***Twister**
20mL Cyclonic with Aux. 20-809-2574HE

*Requires adaptor KT-1104.



Spray Chambers for HF

***Tracey PFA44**

44ml Cyclonic with Aux.	20-809-2578
Spray Chamber Adaptor	KT-1104

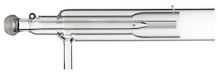
*Requires adaptor KT-1104.



Torches

Quartz Torches

with 1.0mm Injector	30-807-0558
with 1.5mm Injector	30-807-0557
with 2.0mm Injector	30-807-3608
with 2.5mm Injector	30-807-0556



Torch Options

Quartz Torch Bonnet	31-808-2577
Quartz Connector with Dilution Port	31-808-3217
Quartz Connector with 45deg Dilution Port	31-808-3280
Straight Quartz Connector	31-808-3288
Clamp (PKT 2)	70-803-0846





Semi-Demountable Torch

with 2.4mm Quartz Injector	30-808-3853



Torch Options

Semi-Demountable Torch body	31-808-3857
1.0mm Tapered Quartz Injector	31-808-4172
1.5mm Tapered Quartz Injector	31-808-4173
2.4mm Tapered Quartz Injector	31-808-4168
1.0 mm Tapered Alumina Injector	31-808-4169
1.5 mm Tapered Alumina Injector	31-808-4170
2.4mm Tapered Alumina Injector	31-808-3855
2.4mm Sapphire Capillary Injector	31-808-4159
PEEK Injector Adaptor	31-808-4478

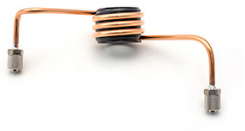


Viton O-rings for FDT/SDT ball joints (PKT 10)	70-V-011



RF Coils

Copper	70-900-7800C
Silver	70-900-7800S
Gold	70-900-7800G
RF Coil Installation Kit	70-900-7500T









Cones

Sampler Cones

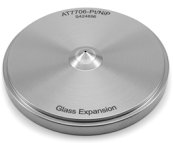
Nickel Sampler	AT7701-Ni
Nickel Sampler with Nickel plated base	AT7701-Ni/Ni
Aluminium Sampler	AT7701-Al
Platinum Sampler	AT7706-Pt
Platinum Sampler (18 mm Insert)	AT7706A-Pt
Platinum Sampler with Nickel plated base	AT7706-Pt/NiP











Cones (continued)

Sampler Cones (continued)

Platinum Sampler with solid Nickel base	AT7706-Pt/Ni
Platinum Sampler (15mm insert) with Nickel base	AT7706B-Pt/Ni
Platinum Sampler with Nickel plated base (Extended Life)	AT7706L-Pt/NiP



Skimmer Cones

Nickel Skimmer for x-lens	AT7702X-Ni
Aluminium Skimmer for x-lens	AT7702X-Al



Platinum Skimmer for x-lens	AT7708X-Pt



Platinum Skimmer with Nickel base for x-lens	AT7708X-Pt/Ni



Cone Options

Skimmer Cone Guard	70-803-1008
Long Life Pt Shield Plate	AT5004
Graphite Gasket (PKT 3)	AT7703
Retaining Ring	AT7704



Common Accessories

Elegra Argon Humidifier

Elegra Dual Argon Humidifier	70-803-1273
Elegra Stand	70-803-1581



Guardian In-Line Filters

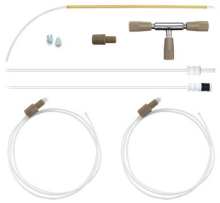
Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Common Accessories (continued)

Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Agilent I-AS

PTFE Encapsulated Carbon Fibre Probe 0.25mm ID	60-703-1010
PTFE Encapsulated Carbon Fibre Probe 0.3mm ID	60-703-1009



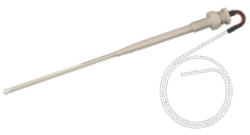
For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793



For SPS 3/SPS 4

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1957
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-0908
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0853



Glass DC Nebulizers

SeaSpray
400µL/min uptake A13-1-USS04

MicroMist
400µL/min uptake A13-1-UM04

Conikal
1mL/min uptake A13-1-UC1



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A13-1-QSS1



DC Nebulizers for HF

DuraMist
400µL/min uptake A13-1-DM04



OpalMist
400µL/min uptake A13-1-PFA04



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1103-XR

Comprises:

Glass Twister Spray Chamber	21-809-3186
Assembly (ROL)	20-809-5176
Mount	21-809-3765
Make-up Gas Adaptor	21-809-4024
Metal Ball Joint Clip	JC-13
UniFit Connector (PKT. 3)	UFT-2-86





Peltier Controlled Cyclonic Spray Chambers

Glass Spray Chamber	KT-1206
Quartz Spray Chamber	KT-1206Q
PFA Spray Chamber	KT-1206P



Spray Chambers

High Efficiency Sample Introduction System
HE-SIS for Agilent ICP-MS KT-1155



***Twister**
50mL Cyclonic with Aux. 20-809-2574HE

*Requires adaptor KT-1104.



Spray Chambers for HF

***Tracey PFA44**
44ml Cyclonic with Aux. 20-809-2578
Spray Chamber Adaptor KT-1104

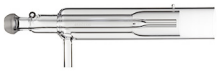
*Requires adaptor KT-1104.



Torches

Quartz Torches

with 1.0mm Injector	30-807-0558
with 1.5mm Injector	30-807-0557
with 2.0mm Injector	30-807-3608
with 2.5mm Injector	30-807-0556



Torch Options

Quartz Torch Bonnet	31-808-2577
Quartz Connector with Dilution Port	31-808-3217
Quartz Connector with 45deg Dilution Port	31-808-3280
Straight Quartz Connector	31-808-3288
Clamp (PKT 2)	70-803-0846





Semi-Demountable Torch

with 2.4mm Quartz Injector	30-808-3853



Torch Options

Semi-Demountable Torch body	31-808-3857
1.0mm Tapered Quartz Injector	31-808-4172
1.5mm Tapered Quartz Injector	31-808-4173
2.4mm Tapered Quartz Injector	31-808-4168
1.0 mm Tapered Alumina Injector	31-808-4169
1.5 mm Tapered Alumina Injector	31-808-4170
2.4mm Tapered Alumina Injector	31-808-3855
2.4mm Sapphire Capillary Injector	31-808-4159
PEEK Injector Adaptor	31-808-4478



Viton O-rings for FDT/SDT ball joints (PKT 10)	70-V-011



RF Coils

Copper	70-900-7700C
Silver	70-900-7700S
Gold	70-900-7700G
RF Coil Installation Kit	70-900-7500T





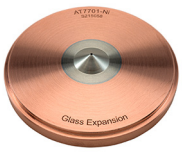




Cones

Sampler Cones

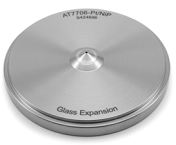
Nickel Sampler	AT7701-Ni
Nickel Sampler with Nickel plated base	AT7701-Ni/Ni
Aluminium Sampler	AT7701-Al
Platinum Sampler	AT7706-Pt
Platinum Sampler (18 mm Insert)	AT7706A-Pt
Platinum Sampler with Nickel plated base	AT7706-Pt/NiP











Cones (continued)

Sampler Cones (continued)

Platinum Sampler with solid Nickel base	AT7706-Pt/Ni
Platinum Sampler (15mm insert) with Nickel base	AT7706B-Pt/Ni
Platinum Sampler with Nickel plated base (Extended Life)	AT7706L-Pt/NiP



Skimmer Cones

Nickel Skimmer for x-lens	AT7702X-Ni
Aluminium Skimmer for x-lens	AT7702X-Al



Platinum Skimmer for x-lens	AT7708X-Pt



Platinum Skimmer with Nickel base for x-lens	AT7708X-Pt/Ni
Nickel Skimmer for s-lens	AT7702S-Ni
Platinum Skimmer for s-lens	AT7708S-Pt
Platinum Skimmer with Nickel base for s-lens	AT7708S-Pt/Ni



Cone Options

Skimmer Cone Guard for x-lens	70-803-1008
Skimmer Cone Guard for s-lens	70-803-1004
Long Life Pt Shield Plate	AT5004
Retaining Ring	AT7704
Graphite Gasket (PKT 3)	AT7703



Common Accessories

Elegra Argon Humidifier

Elegra Dual Argon Humidifier	70-803-1273
Elegra Stand	70-803-1581



Common Accessories (continued)

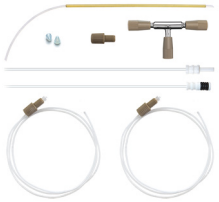
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Agilent I-AS

PTFE Encapsulated Carbon Fibre Probe 0.25mm ID	60-703-1010
PTFE Encapsulated Carbon Fibre Probe 0.3mm ID	60-703-1009



For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793



For SPS 3/SPS 4

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1957
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-0908
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0853



Glass DC Nebulizers

SeaSpray

2mL/min uptake	A13-07-USS2
400µL/min uptake	A13-07-USS04

Conikal

2mL/min uptake	A13-07-UC2
1mL/min uptake	A13-07-UC1

Slurry

4mL/min uptake	A13-07-US6



DC Nebulizers for HF

DuraMist

1mL/min uptake	A13-07-DM1



OpalMist

2mL/min uptake	A13-07-PFA2



VeeSpray

0.6 - 3mL/min uptake	A13-07-CV6



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber

IsoMist XR Kit	KT-1137-XR

Comprises:

Glass Twister Spray Chamber	21-809-3186
Assembly (ROL)	20-809-5176
PuraFlex Transfer Tube	21-809-4038
Metal Ball Joint Clip	JC-13
UniFit Right Angle Connector 2.0mm (PKT 3)	GAZ-04-2-90





BC Spray Chambers

Tracey BC NEW*

30mL Cyclonic	20-809-5316

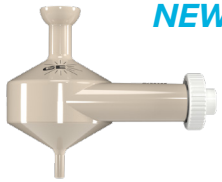
* Direct replacement for 20-808-8882HE



Tracey BC PEEK NEW*

30mL Cyclonic	20-809-4795

* Direct replacement for 20-809-2507
* No internal resurfacing required



Spray Chambers

Twister

50mL Cyclonic	20-809-9199HE



Tracey

50mL Cyclonic	20-808-8882HE



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber

Hydride Kit	KT-1157



Spray Chambers for HF

Twister TFE Spray Chamber

50mL Cyclonic	20-809-3452



Tracey TFE Spray Chamber

50mL Cyclonic	20-809-2507



Torches

E-Torch

NEW*

SVDV/VDV	30-808-4466
Comprises:	
Body	31-808-4487
Quartz Plasma Tube	31-808-4471
Quartz Injector 1.8mm	31-808-3576
Retainer	31-808-4589
Ball Joint Adaptor	31-808-4565





E-Torch

NEW*

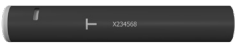
RV	30-808-4560
Comprises:	
Body	31-808-4487
Quartz Plasma Tube	31-808-4562
Quartz Injector 1.8mm	31-808-3576
Retainer	31-808-4589
Ball Joint Adaptor	31-808-4565





E-Torch Options:

Ceramic Plasma Tube for SVDV/VDV	31-808-4588
Ceramic Plasma Tube for RV	31-808-4592
Quartz Plasma Tube for SVDV/VDV	31-808-4471
Quartz Plasma Tube for RV	31-808-4562
O-ring kit	70-803-2921







E-Torch Tapered Injector Options

Quartz Injector 0.8mm	31-808-3738
Quartz Injector 1.4mm	31-808-3583
Quartz Injector 1.8mm	31-808-3576
Quartz Injector 2.4mm	31-808-3584
Alumina Injector 1.5mm	31-808-3725
Alumina Injector 1.8mm	31-808-3585
Alumina Injector 2.4mm	31-808-3722



Injectors for Agilent FDT

Quartz Injector 0.8mm	31-808-4357
Quartz Injector 1.4mm	31-808-4354
Quartz Injector 1.8mm	31-808-4355
Quartz Injector 2.4mm	31-808-4356
Alumina Injector 0.8mm	31-808-4530
Alumina Injector 1.4mm	31-808-4532
Alumina Injector 1.8mm	31-808-4358
Alumina Injector 2.4mm	31-808-4534





Torches (continued)

Quartz Torch

SVDV/VDV	31-808-3557
RV	31-808-3556
Retaining Ring	31-808-3563
Pre-Optic Window Axial	70-803-1968
Pre-Optic Window Radial	70-803-1969
O-ring for Window Axial (PKT 5)	70-803-2794
Pre-optics cone	70-803-2751







RF Coils

Silver	70-900-5100S
Gold	70-900-5100G
Copper	70-900-5100C
RF Coil Installation Kit	70-900-5100T



RotaValve

RotaValve	70-803-1738
Valve Tubing Kit	70-803-1869
Sample Loop 1.0mL	70-803-1860
Nebulizer Connector UniFit - 1/4-28 Flangless	70-803-1888









Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1268



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

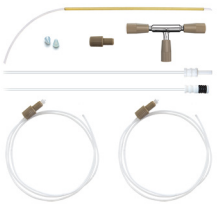
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes

(See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1803

Polyimide sheathed Autosampler Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-1443

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0793



For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2940



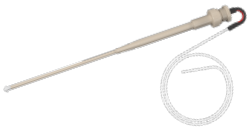
Autosampler Probes (continued)

For SPS 3/SPS 4

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1957

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-0908

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0853



Glass DC Nebulizers

SeaSpray
2mL/min uptake A13-07-USS2

MicroMist
400µL/min uptake A13-05-UM04

Conikal
1mL/min uptake A13-05-UC1



DC Nebulizers for HF

DuraMist
1mL/min uptake A13-05-DM1



OpalMist
1mL/min uptake A13-05-PFA1



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1135-XR

Comprises:

Glass Twister Spray Chamber	21-809-3185
Assembly (LOL)	20-809-5175
PuraFlex Transfer Tube (PQ9200)	21-809-5273
PuraFlex Transfer Tube	21-809-2962
Metal Ball Joint Clip	JC-13
UniFit Right Angle Connector (PKT 3)	GAZ-04-90



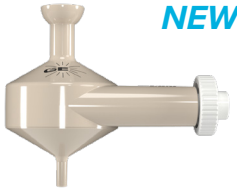


BC Spray Chambers

Tracey BC NEW*
30mL Cyclonic 20-809-5316
* Direct replacement for 20-808-8882HE



Tracey BC PEEK NEW*
30mL Cyclonic 20-809-4795
* Direct replacement for 20-809-2506
* No internal resurfacing required



Spray Chambers

HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
Hydride Kit KT-1157



Twister
50mL Cyclonic 20-809-0222HE



Tracey
50mL Cyclonic 20-808-8882HE



Cinnabar
20mL Cyclonic 20-809-0164HE



Spray Chambers for HF

Tracey TFE Spray Chamber
50mL Cyclonic 20-809-2506



Torches

Fully Demountable Torch

Torch Body	31-808-8896



Fully Demountable Torch Options:

Quartz Outer Tube	31-808-8020
Syalon Outer Tube	31-808-0023



Quartz Inner Tube	31-808-8145
Alumina Inner Tube	31-808-0017



Ball Joint Adaptor	31-807-0018
Torch Bonnet - Large	31-808-3607
Radial Purge Window	31-808-8098
O-rings for Glass Body (PKT 10)	70-4X2.5V75



Viton O-rings for FDT/SDT Ball Joints (PKT 10)	70-V-011
PTFE Coated Viton O-rings for Cyclonics/Nebulizer Seal (PKT 10)	VT-009
EzyGlide Cloth	70-EZG-CLOTH



Tapered Injectors

Quartz Injector 1.0mm	31-808-0009
Quartz Injector 2.0mm	31-808-0008
Alumina Injector 2.0mm	31-808-0027



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier	70-803-1266



Guardian In-Line Filters

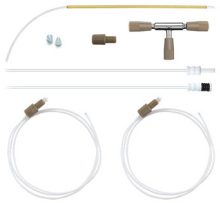
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Common Accessories (continued)

Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793





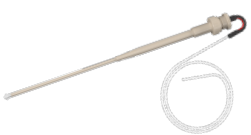
For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2940



For SPS 3/SPS 4

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1957
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-0908
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0853



Glass DC Nebulizers

SeaSpray
400µL/min uptake A52-1-USS04

MicroMist
400µL/min uptake A52-1-UM04



Spray Chambers

High Efficiency Sample Introduction System
HE-SIS for Nu Vitesse KT-1219

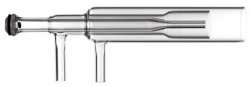


Twister
50mL Cyclonic 20-809-0495HE



Torches

Quartz Torch
with 1.5mm Injector 30-807-0560



Viton O-rings for FDT/SDT
ball joints (PKT 10) 70-V-011



Cones

Sampler Cones
Nickel Sampler
Version A, Wet Plasma NU1011A-Ni



Nickel Dry Sampler
with Copper Core NU1011B-Ni



Skimmer Cones
Nickel Skimmer
Version A, Wet Plasma NU1004A-Ni



Nickel Dry Skimmer NU1014B-Ni

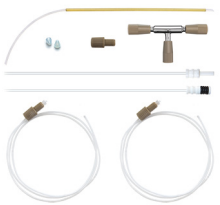


Common Accessories

Guardian In-Line Filters
Guardian DC in-line non-return
gas filter 70-803-1942



Trident Internal Standard Kits
Trident CT Standard Kit 60-703-1179
Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Glass DC Nebulizers

SeaSpray
400µL/min uptake A23-1-USS04

MicroMist
400µL/min uptake A23-1-UM04

Conikal
1mL/min uptake A23-1-UC1



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A23-1-QSS1



DC Nebulizers for HF

DuraMist
400µL/min uptake A23-1-DM04



OpalMist
400µL/min uptake A23-1-PFA04



Spray Chambers

Twister
50mL Cyclonic 20-809-4417HE
50mL Cyclonic With Matrix Port 20-809-4560



Tracey
50mL Cyclonic 20-809-4419HE



Spray Chambers

Cinnabar
20mL Cyclonic 20-809-4480HE



High Efficiency Sample Introduction System
HE-SIS for PerkinElmer NexION KT-1184



Torches

D-Torch 30-808-3927

Comprises:

Base and Inner Tube	31-808-3928
Quartz Outer Tube	31-808-3942
Retaining Ring	31-808-2818
Injector Adaptor	31-808-3980
Injector Ferrule	31-808-2962
Fastener Assembly	31-808-4130
Viton O-rings (PKT 10)	70-V-011
PTFE Coated Viton O-rings (PKT 10)	70-VT-012





Quartz Injectors

Tapered 1.0mm	31-808-3423
Tapered 1.8mm	31-808-4005
Tapered 2.0mm	31-808-4006
Tapered 2.5mm	31-808-3302



HF Resistant Injectors

Tapered Alumina 2.4mm	31-808-3205
Sapphire 2.4mm	31-808-3378



Cones

Sampler Cones

Nickel Sampler PE3011-Ni



Platinum Sampler PE3013-Pt

Platinum Sampler (18mm) PE3013A-Pt

Platinum Sampler (12mm) PE3013C-Pt

Platinum Sampler Boron Free PE3013-Pt-BF



Skimmer Cones

Nickel Skimmer PE4212-Ni

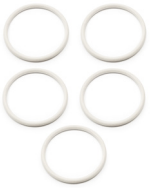
Platinum Skimmer PE4214-Pt

Nickel Hyper Skimmer PE4015-Ni

All Nickel Hyper Skimmer PE4016-Ni



O-ring for NexION Hyper Skimmer Cone (pack of 5) PE5125



ConeGuard Thread Protectors

Sampler Cone Guard For NexION 70-803-1024



Gasket for Sampler Cone (pack of 5) PE5111



Common Accessories

Elegra Argon Humidifier

Elegra Dual Argon Humidifier 70-803-1473



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

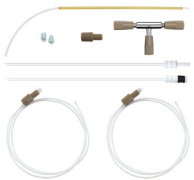
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For PerkinElmer S20 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2097



For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1803

Polyimide sheathed Autosampler Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-1443

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0793





Glass DC Nebulizers

SeaSpray
400µL/min uptake A23-1-USS04

MicroMist
400µL/min uptake A23-1-UM04

Conikal
1mL/min uptake A23-1-UC1



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A23-1-QSS1



DC Nebulizers for HF

DuraMist
400µL/min uptake A23-1-DM04

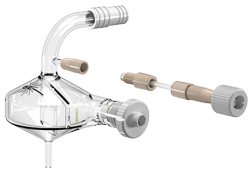


OpalMist
400µL/min uptake A23-1-PFA04



Spray Chambers

Twister
50mL Cyclonic 20-809-4417HE
50mL Cyclonic With Matrix Port 20-809-4560



Tracey
50mL Cyclonic 20-809-4419HE

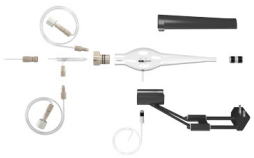


Spray Chambers

Cinnabar
20mL Cyclonic 20-809-4480HE



High Efficiency Sample Introduction System
HE-SIS for PerkinElmer NexION KT-1184



Torches

D-Torch 30-808-3927

Comprises:

Base and Inner Tube	31-808-3928
Quartz Outer Tube	31-808-3942
Retaining Ring	31-808-2818
Injector Adaptor	31-808-3980
Injector Ferrule	31-808-2962
Fastener Assembly	31-808-4130
Viton O-rings (PKT 10)	70-V-011
PTFE Coated Viton O-rings (PKT 10)	70-VT-012





Quartz Injectors

Tapered 1.0mm	31-808-3423
Tapered 1.8mm	31-808-4005
Tapered 2.0mm	31-808-4006
Tapered 2.5mm	31-808-3302



HF Resistant Injectors

Tapered Alumina 2.4mm	31-808-3205
Sapphire 2.4mm	31-808-3378



Cones

Sampler Cones

Nickel Sampler	PE3011-Ni



Platinum Sampler	PE3013-Pt
Platinum Sampler (18mm)	PE3013A-Pt
Platinum Sampler (12mm)	PE3013C-Pt
Platinum Sampler Boron Free	PE3013-Pt-BF

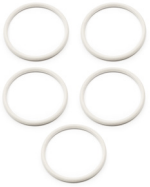


Skimmer Cones

Nickel Skimmer	PE4012-Ni
Platinum Skimmer	PE4014-Pt
Nickel Hyper Skimmer	PE4015-Ni
All Nickel Hyper Skimmer	PE4016-Ni



O-ring for NexION Hyper Skimmer Cone (pack of 5) PE5125



ConeGuard Thread Protectors

Sampler Cone Guard For NexION 70-803-1024



Gasket for Sampler Cone (pack of 5) PE5111



Common Accessories

Elegra Argon Humidifier

Elegra Dual Argon Humidifier 70-803-1473



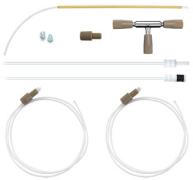
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For PerkinElmer S20 Series

Guardian Probe 0.75mm
Probe Connecting Line (Red) 70-803-2097



For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm
Probe Connecting Line (Red) 70-803-1803



Polyimide sheathed Autosampler
Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre
Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre
Probe 0.75mm ID 70-803-1443



PTFE Encapsulated Carbon Fibre
Probe 1.0mm ID 70-803-0793

Glass DC Nebulizers

SeaSpray
400µL/min uptake A23-1-USS04

MicroMist
400µL/min uptake A23-1-UM04

Conikal
1mL/min uptake A23-1-UC1



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A23-1-QSS1



DC Nebulizers for HF

DuraMist
400µL/min uptake A23-1-DM04

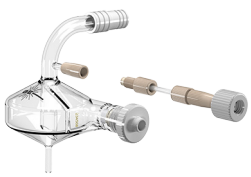


OpalMist
400µL/min uptake A23-1-PFA04



Spray Chambers

Twister
50mL Cyclonic 20-809-4417HE
50mL Cyclonic 20-809-4560
With Matrix Port



Tracey
50mL Cyclonic 20-809-4419HE



Spray Chambers

Cinnabar
20mL Cyclonic 20-809-4480HE



High Efficiency Sample Introduction System
HE-SIS for PerkinElmer NexION KT-1184



Torches

D-Torch 30-808-3927



Comprises:

Base and Inner Tube	31-808-3928
Quartz Outer Tube	31-808-3942
Retaining Ring	31-808-2818
Injector Adaptor	31-808-3980
Injector Ferrule	31-808-2962
Fastener Assembly	31-808-4130
Viton O-rings (PKT 10)	70-V-011
PTFE Coated Viton O-rings (PKT 10)	70-VT-012

Quartz Injectors

Tapered 1.0mm	31-808-3423
Tapered 1.8mm	31-808-4005
Tapered 2.0mm	31-808-4006
Tapered 2.5mm	31-808-3302

HF Resistant Injectors

Tapered Alumina 2.4mm	31-808-3205
Sapphire 2.4mm	31-808-3378



Cones

Sampler Cones

Nickel Sampler	PE3011-Ni
Aluminium Sampler	PE3011-Al
Platinum Sampler	PE3013-Pt
Platinum Sampler (18mm)	PE3013A-Pt
Platinum Sampler (18mm)	PE3013C-Pt
Platinum Sampler Boron Free	PE3013-Pt-BF

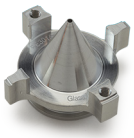




Skimmer Cones

Nickel Skimmer	PE3012-Ni
Aluminium Skimmer	PE3012-Al
Platinum Skimmer	PE3014-Pt
Platinum Skimmer Boron Free	PE3014-Pt-BF
Aluminium Hyper Skimmer	PE3015-Al
Nickel Hyper Skimmer	PE3015-Ni
Platinum Hyper Skimmer	PE3015-Pt/Ni





O-ring for NexION Hyper Skimmer Cone (pack of 5 PE5115



Screw for NexION Hyper Skimmer Cone (pack of 2) PE5116



ConeGuard Thread Protectors

Sampler Cone Guard For NexION	70-803-1024
Skimmer Cone Guard For NexION	70-803-1026





Gasket for Sampler Cone (pack of 5) PE5111



Common Accessories

Elegra Argon Humidifier

Elegra Dual Argon Humidifier 70-803-1473



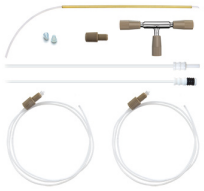
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For PerkinElmer S20 Series

Guardian Probe 0.75mm
Probe Connecting Line (Red) 70-803-2097



For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm
Probe Connecting Line (Red) 70-803-1803



Polyimide sheathed Autosampler
Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre
Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre
Probe 0.75mm ID 70-803-1443

PTFE Encapsulated Carbon Fibre
Probe 1.0mm ID 70-803-0793



Glass DC Nebulizers

SeaSpray
400µL/min uptake A22-1-USS04

MicroMist
400µL/min uptake A22-1-UM04

Conikal
1mL/min uptake A22-1-UC1



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A22-1-QSS1



DC Nebulizers for HF

DuraMist
400µL/min uptake A22-1-DM04



OpalMist
400µL/min uptake A22-1-PFA04



Spray Chambers

Twister
50mL Cyclonic
(2.4mm Aux. Port)
90deg Screw Mount 20-809-3854HE



Twister
50mL Cyclonic
with Screw Mount 20-809-3892HE



Spray Chambers for HF

Tracey PFA44
44mL Cyclonic 20-809-3713



High Efficiency Sample Introduction System
HE-SIS for PerkinElmer NexION 300/350 KT-1204



Torches

D-Torch 30-807-0540

Comprises:
Base and Inner Tube 31-808-2847
Quartz Outer Tube 31-808-2848
Retaining Ring 31-808-2818



D-Torch for HF 30-808-2937

Comprises:
Base and Inner Tube 31-808-2847
Ceramic Outer Tube 31-808-2849
Retaining Ring 31-808-2818



D-Torch Options:
Quartz Outer Tube 31-808-2848
Ceramic Outer Tube 31-808-2849



Torches (continued)

Quartz Torch



Standard Quartz Torch	30-808-8107
High Efficiency Quartz Torch	31-808-2784

Quartz Injectors (non DRC)



Tapered Quartz Injector 1.5mm	31-807-0006
Tapered Quartz Injector 1.8mm	31-807-0005
Tapered Quartz Injector 2.0mm	31-807-0004

These injectors are compatible with both D-Torch and standard torch. They are suitable for torch adaptor 31-808-2825.

Quartz Injectors (DRC Versions)



Tapered Quartz Injector with Ball Joint, 0.85mm	31-808-3125
Tapered Quartz Injector with Ball Joint, 1.5mm	31-808-0851
Tapered Quartz Injector with Ball Joint, 2.0mm	31-808-0806
Tapered Quartz Injector with Ball Joint, 2.5mm	31-808-3463

These injectors are compatible with both D-Torch and standard torch. They are suitable for torch adaptor 31-808-2824.

HF Resistant Injectors

Tapered Alumina Injector 2.0mm	31-807-0060
Sapphire Injector 2.0mm	31-808-2803

These injectors are compatible with both D-Torch and standard torch. They are suitable for torch adaptor 31-808-2825.

Torch Adaptor



Cassette Mount Adaptor for Ball Joint Injector	31-808-2824

This adaptor is suitable for injectors with a ball joint.

Torch Adaptor



PFA Cassette Mount Adaptor	31-808-2825

This adaptor is suitable for injectors without a ball joint.

Cones

Sampler Cones



Nickel Sampler	PE3011-Ni
Aluminium Sampler	PE3011-Al



Platinum Sampler	PE3013-Pt
Platinum Sampler (18mm)	PE3013A-Pt
Platinum Sampler (12mm)	PE3013C-Pt
Platinum Sampler Boron free	PE3013-Pt-BF

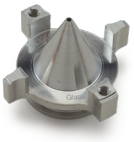
Skimmer Cones



Nickel Skimmer	PE3012-Ni
Aluminium Skimmer	PE3012-Al



Platinum Skimmer	PE3014-Pt



Platinum Skimmer Boron free	PE3014-Pt-BF
Aluminium Hyper Skimmer	PE3015-Al
Nickel Hyper Skimmer	PE3015-Ni
Platinum Hyper Skimmer	PE3015-Pt/Ni



O-ring for NexION Hyper Skimmer Cone (pack of 5)	PE5115



Screw for NexION Hyper Skimmer Cone (pack of 2)	PE5116

ConeGuard Thread Protectors



Sampler Cone Guard For NexION 300/350	70-803-1024



Skimmer Cone Guard For NexION 300/350	70-803-1026



Gasket for Sampler Cone (pack of 5)	PE5111

RF Coils

Copper 70-900-2006C



RF Coil Installation Kit 70-900-2006T



Common Accessories

Elegra Argon Humidifier

Elegra Dual Argon Humidifier 70-803-1274



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

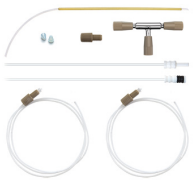
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF solutions 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes

(See page 22-23 for complete list of probes)

For PerkinElmer S20 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2097



Suitable for PE S10 or AS93+

Guardian Probe 0.75mm Probe Connecting Line (Red) (*for PE S10 only) 70-803-2851



Guardian Probe 0.75mm Probe Connecting Line (Red) (*for AS93+ only) 70-803-2836



PTFE Encapsulated Carbon Fibre Probe 0.25mm ID 70-803-1071

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-1440

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0816



For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1803

Polyimide sheathed Autosampler Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-1443

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0793





Glass DC Nebulizers

SeaSpray
2mL/min uptake A21-07-USS2

MicroMist
600µL/min uptake A21-07-UM06

Slurry
4mL/min uptake A21-07-US6

Conikal
2mL/min uptake A21-07-UC2



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A21-07-QSS1



DC Nebulizers for HF

DuraMist
1mL/min uptake A21-07-DM1



OpalMist
2mL/min uptake A21-07-PFA2



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1147-XR

Comprises:

Glass Twister Spray Chamber	21-809-4347
Assembly (LOL)	20-809-5175
PuraFlex Transfer Tube	21-809-4350
Metal Ball Joint Clip	JC-13
UniFit Right Angle Connector (PKT 3)	GAZ-04-90





BC Spray Chambers

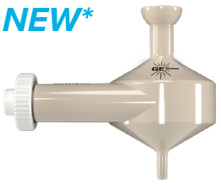
Tracey BC
30mL Cyclonic 20-809-5318
* Direct replacement for 20-808-8882HE

NEW*



Tracey BC PEEK
30mL Cyclonic 20-809-5300
* Direct replacement for 20-809-2507
* No internal resurfacing required

NEW*



Spray Chambers

Twister
50mL Cyclonic 20-809-0495HE
50mL Cyclonic with Oxygen Port 20-809-4165



Tracey
50mL Cyclonic 20-808-8882HE



Cinnabar
20mL Cyclonic 20-809-0164HE



Twinnabar
20mL Cyclonic 20-809-0498HE



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
Hydride Kit KT-1157
Hydride Kit for Avio with HTS system KT-2742



Spray Chambers for HF

Twister TFE

50mL Cyclonic	20-809-3452



Tracey TFE

50mL Cyclonic	20-809-2507



Torches

D-Torch for Avio 200

D-Torch	30-808-3800



Comprises:

Base and Inner Tube	31-808-3802
Quartz Outer Tube	31-808-3792
Retaining Ring	31-808-2818



D-Torch Options:

Ceramic Outer Tube	31-808-3820
Injector Adapter	31-808-3782
Viton O-Rings (Pkt 10)	70-803-1576



D-Torch for Avio 500

D-Torch	30-808-3882



Comprises:

Base and Inner Tube	31-808-3883
Quartz Outer Tube	31-808-3792
Retaining Ring	31-808-2818



D-Torch Options:

Ceramic Outer Tube	31-808-3894
Injector Adapter	31-808-3782
Viton O-Rings (Pkt 10)	70-803-1576



Tapered Injectors for D-Torch

Quartz Injector 0.8mm	31-808-3785
Quartz Injector 1.2mm	31-808-3786
Quartz Injector 1.6mm	31-808-3788
Quartz Injector 2.0mm	31-808-3789
Alumina Injector 1.25mm	31-808-3799
Alumina Injector 2.0mm	31-808-3783



Torches (continued)

Capillary Injectors for D-Torch

Sapphire Injector 1.5mm	31-808-4296
Sapphire Injector 2.0mm	31-808-3784



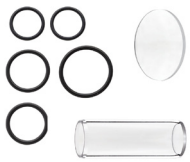
Fixed Torch for Avio 200/500

Quartz Torch with single slot	31-808-377(
Quartz Torch with 3 slots	31-808-423



Purge Windows for Avio 500

Optical Kit	70-803-1634
Radial Purge Extension	70-803-2033
Axial Purge Window	31-808-2649
Optical Oring Kit	70-803-2802



Purge Windows for Avio 200

Axial Purge Window	31-808-2649
Radial Purge Window, Short (32 mm)	31-808-8098
Avio 200 Optical Kit	70-803-1633



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1269



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

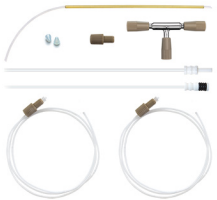
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For PerkinElmer S20 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2097



Suitable for PE S10 or AS93+

Guardian Probe 0.75mm Probe Connecting Line (Red) (*for PE S10 only) 70-803-2851



Guardian Probe 0.75mm Probe Connecting Line (Red) (*for AS93+ only) 70-803-2836



PTFE Encapsulated Carbon Fibre Probe 0.25mm ID 70-803-1071

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-1440

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0816



Suitable for Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1803



Polyimide sheathed Autosampler Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-1443

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0793

For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2940



Glass DC Nebulizers

SeaSpray
2mL/min uptake A21-07-USS2

MicroMist
600µL/min uptake A21-07-UM06

Slurry
4mL/min uptake A21-07-US6

Conikal
2mL/min uptake A21-07-UC2



Quartz DC Nebulizers

SeaSpray
1mL/min uptake A21-07-QSS1



DC Nebulizers for HF

DuraMist
1mL/min uptake A21-07-DM1



OpalMist
2mL/min uptake A21-07-PFA2



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1012-XR

Comprises:

Glass Twister Spray Chamber	21-809-3185
Assembly (LOL)	20-809-5175
IsoMist Mount	21-809-2773
Adaptor GAZ08-12 90deg	21-809-2871
Clamping Screw	21-808-0953
UniFit Right Angle Connector (PKT 3)	GAZ-04-90





Spray Chambers

Tracey
50mL Cyclonic 20-809-0434HE



Twister
50mL Cyclonic (Aqueous) 20-809-0208HE
With 7mm baffle



Twister
50mL Cyclonic (Organics) 20-809-0446HE
With 4mm baffle



Twister
50mL Cyclonic (Aux. Port) 20-809-0004HE

Cinnabar
20mL Cyclonic 20-809-9121HE



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
HydraMist Kit KT-1162



Spray Chambers for HF

Tracey TFE
50mL Cyclonic 20-809-2510
Plugs directly into cassette mount



Torches

D-Torch 30-808-3300



Comprises:

Base and Inner Tube	31-808-3292
Quartz Outer Tube	31-808-3294
Retaining Ring	31-808-2818

D-Torch Options

Ceramic Outer Tube	31-808-2990
Copper Foils (PKT 12) for Cermic Outer Tube	31-808-3356
O-Ring Kit	70-803-0762



Quartz Torch

Without slots	31-808-3254
With single slot	31-808-3255
With 3 slots	31-808-3256



Quartz Torch Options:

Copper Foil for Quartz Torch or D-Torch Quartz Outer Tube (pack of 12)	31-808-3289

Tapered Quartz Injectors

Quartz Injector 0.8mm	31-808-3257
Quartz Injector 2.0mm	31-808-3258
Alumina Injector 1.2mm	31-808-3287
Alumina Injector 2.0mm	31-808-3286



Sapphire Injectors

Sapphire Injector 2mm	31-808-3528

Purge Windows

Axial 17mm disk	31-808-0551
Axial 32mm disk	31-808-2649
Radial (Post Nov. 2004)	31-808-2788



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier	70-803-1269



Common Accessories (continued)

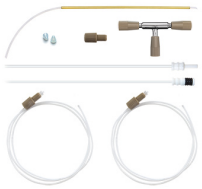
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF solutions	60-808-1150



Magnifier Inspection Tool 70-803-1923

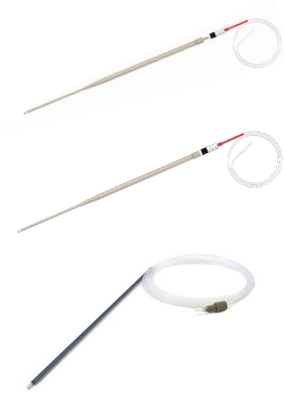


Autosampler Probes

(See page 22-23 for complete list of probes)

Suitable for PE S10 or AS93+

Guardian Probe 0.75mm Probe Connecting Line (Red) (*for PE S10 only)	70-803-2851
Guardian Probe 0.75mm Probe Connecting Line (Red) (*for AS93+ only)	70-803-2836
PTFE Encapsulated Carbon Fibre Probe 0.25mm ID	70-803-1071
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-1440
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0816



Suitable for Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793



For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2940



Glass DC Nebulizers

SeaSpray
400µL/min uptake A41-07-USS04S

MicroMist
400µL/min uptake A41-07-UM04



DC Nebulizers Compatible with HF

OpalMist
400µL/min uptake A41-07-PFA04



DuraMist
400µL/min uptake A41-07-DM04S



Spray Chambers

Glass
50mL Cyclonic 20-809-5042
With B14 gravity drain



Quartz
50mL Cyclonic 20-809-5044
With B14 gravity drain



Drain Device 21-809-4197



Extention Pipe
with Aux Gas Port 70-803-2134



Dilution Gas Tube
800mm 70-803-1766



Spray Chambers Compatible with HF

PFA
50mL Cyclonic 20-809-5043

HF Drain Device 21-809-2540



Extention Pipe
with Aux Gas Port 21-809-4857



Torches

Quartz Mini Torches

Torch with 1.5mm Injector	30-808-4258
Torch with 1.8mm Injector	30-808-4265



Demountable Torch for HF

Mini Torch Kit	30-808-4282



Comprises:

Quartz Torch Body	31-808-4283
Alumina Injector 1.5mm	31-808-0774
PEEK Injector Adaptor	31-808-4478



Cones

Sampler Cones

Nickel Sampler	SZ7011-NiP



Platinum Sampler	SZ7013-PtP



Gasket for Sampler Cone (PKT 3)	SZ5001
Screw Kit for Sampler Cone (PKT 4)	SZ5004



Skimmer Cones

Copper Skimmer	SZ7002-Cu



Nickel Skimmer Small	SZ7022-Ni
Spacer for Skimmer Small	SZ5005

Platinum Skimmer	SZ7004-Pt/Cu



Screw Kit for Skimmer Cone (PKT 2)	SZ5002
Cone Extraction Tool	70-803-1573



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier	70-803-1312
Elegra Dual-Channel Argon Humidifier	70-803-1473
Dilution Gas Tube	70-803-2764



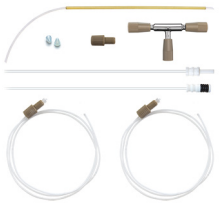
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

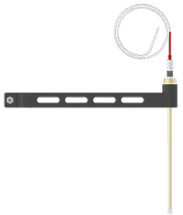
For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793



For Shimadzu AS-10 & AS-20

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2872
PTFE Sheathed Carbon Fibre Probe 0.75mm ID with UniFit	70-803-1477



Glass DC Nebulizers

SeaSpray
400µL/min uptake A41-1-USS04

MicroMist
600µL/min uptake A41-07-UM06S



DC Nebulizers Compatible with HF

OpalMist
600µL/min uptake A41-07-PFA06S



Spray Chambers

Glass
50mL Cyclonic 21-809-3994
With B14 gravity drain



Quartz
50mL Cyclonic 21-809-3992
With B14 gravity drain



Drain Device 21-808-8214



Extention Pipe
Quartz Transfer Tube 31-808-3920



Spray Chambers Compatible with HF

PFA
50mL Cyclonic 21-809-3991



HF Drain Device 21-809-2540



Extention Pipe
PFA Extention w/ right angle 21-809-4081



Torches

Quartz Torches
Quartz Mini Torch (Suitable for ICP-MS 2030) 30-807-0567
Quartz Sleeve for Mini Torch (Suitable for ICP-MS 2030) 31-808-4214



Demountable Torch for HF
Mini Torch Kit 30-808-4401



Comprises:
Quartz Torch Body 31-808-4283
Alumina Injector 1.2mm 31-808-4353
PEEK Injector Adaptor 31-808-4478



RF Coils

Copper	70-900-6000C
Silver	70-900-6000S
Gold	70-900-6000G







RF Coil Installation Kit

RF Coil Installation Kit	70-900-6000T



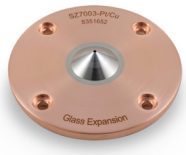
Cones

Sampler Cones

Copper Sampler	SZ7001-Cu
Nickel Sampler	SZ7001-Ni
Nickel Sampler with Copper Base	SZ7001-Ni/Cu
Platinum Sampler (10mm Insert)	SZ7003-Pt/Cu







Gasket for Sampler Cone (PKT 3)	SZ5001
Screw Kit for Sampler Cone (PKT 4)	SZ5004



O-Ring Kit	70-803-1908



Skimmer Cones

Copper Skimmer	SZ7002-Cu
Nickel Skimmer	SZ7002-Ni
Nickel Skimmer with Copper Base	SZ7002-Ni/Cu
Platinum Skimmer	SZ7004-Pt/Cu
Screw Kit for Skimmer Cone (PKT 2)	SZ5002
Cone Extraction Tool	70-803-1573









Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1312



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

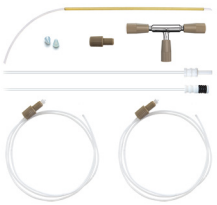
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm
Probe Connecting Line (Red) 70-803-1803

Polyimide sheathed Autosampler Probe
0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre Probe
0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe
0.75mm ID 70-803-1443

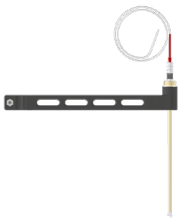
PTFE Encapsulated Carbon Fibre Probe
1.0mm ID 70-803-0793



For Shimadzu AS-10 & AS-20

Guardian Probe 0.75mm
Probe Connecting Line (Red) 70-803-2872

PTFE Sheathed Carbon Fibre Probe
0.75mm ID with UniFit 70-803-1477



Glass DC Nebulizers

Conikal
1mL/min uptake A41-1-UC1S

SeaSpray
2mL/min uptake A41-1-USS2S

Slurry
4mL/min uptake A41-1-US6S



DC Nebulizers for HF

OpalMist
1mL/min uptake A41-1-PFA1S



DuraMist
1mL/min uptake A41-1-DM1S



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1067-XR



Comprises:

Glass Twister Spray Chamber With B14 drain	21-809-3270
Assembly B14 (LOL)	20-809-5187
Adaptor	21-809-3998
Adjustable Stand	70-803-2798
Metal Ball Joint Clip	JC-13
Drain Device	21-808-8214



Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-2749-XR
Requires peristaltic pump



Comprises:

Glass Twister Spray Chamber	21-809-3186
Assembly (ROL)	20-809-5176
Adaptor	21-809-3998
Adjustable Stand	21-809-4911
Metal Ball Joint Clip	JC-13
UniFit Drain (PKT 3)	UFT-16-75



Spray Chambers

Tracey
50mL Cyclonic 20-808-8881HE
With B14 gravity drain



Twister
50mL Cyclonic 20-809-9119HE
With B14 gravity drain



Twister
50mL Cyclonic 20-809-0222HE



Cinnabar
20mL Cyclonic 20-809-0164HE



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
Hydride Kit KT-1157



Spray Chambers (continued)

Drain Device 21-808-8214



Transfer Tube, Spray Chamber to ICPE-9000/9800 Torch

Glass Transfer Tube 86mm 21-809-2846



Spray Chambers for HF

Tracey TFE

50mL Cyclonic 20-809-2508

With B14 gravity drain
Suitable for use with HF



HF Drain Device 21-809-2540



Mounting bracket for HF Spray Chamber 21-809-2839



Transfer Tube, Spray Chamber to ICPE-9000/9800 Torch

PFA Transfer Tube 82.5mm 31-808-3071



Torches

Semi Demountable Torch (HF) 30-808-4335

Suitable for ICPS-7500/8100 and ICPE-9000/9800



Comprises:

Torch Body 31-808-4341



PEEK Injector Adaptor 31-808-4478

Tapered Alumina Injector 1.5mm 31-808-3202

Torch Options:

Tapered Quartz Injector 1.0mm 31-808-3423

Tapered Quartz Injector 1.8mm 31-808-4005

Tapered Quartz Injector 2.0mm 31-808-4006

Tapered Quartz Injector 2.5mm 31-808-3302

Tapered Alumina Injector 2.4mm 31-808-3205

Sapphire Injector 2.4mm 31-808-3378

Viton O-rings for FDT/SDT ball joints (PKT 10) 70-V-011

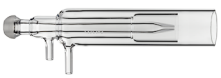
GazFit Connectors (PKT 4) for 4mm OD side arms GAZ-04



Quartz Torches

Quartz Torch Standard 1.5mm Injector (Suitable for 7500/8100) 30-808-1179

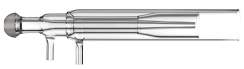
Quartz Torch for Organics, 1.0mm Injector (Suitable for 7500/8100/9000/9800) 30-807-0519



Quartz Torch for High TDS, 1.8mm Injector (Suitable for 7500/8100/9000/9800) 30-807-0518

Quartz Torch for High TDS, 2.0mm Injector (Suitable for 7500/8100/9000/9800) 30-807-0564

Quartz Mini Torch 1.5mm Injector (Suitable for ICPE-9000/9800) 30-807-0534



RF Coils

Copper	70-900-6100C
Silver	70-900-6100S
Gold	70-900-6100G



RF Coil Installation Kit 70-900-6100T



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1312



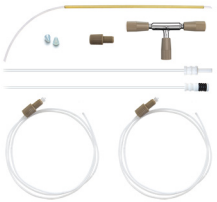
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes

(See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793



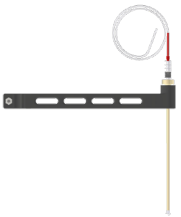
For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm
Probe Connecting Line (Red) 70-803-2940



For Shimadzu AS-10 & AS-20

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2872
PTFE Sheathed Carbon Fibre Probe 0.75mm ID with UniFit	70-803-1477



Glass DC Nebulizers

SeaSpray
2mL/min uptake A21-1-USS2

MicroMist
400µL/min uptake A21-1-UM04

Slurry
4mL/min uptake A21-1-US6

Conikal
2mL/min uptake A21-1-UC2



DC Nebulizers for HF

DuraMist
1mL/min uptake A21-1-DM1



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1141-XR

Comprises:

Glass Twister Spray Chamber	21-809-3185
Assembly (LOL)	20-809-5175
Adaptor 12/8 for SpectroBlue	31-808-3489
Glass Ball Cup Adaptor S19	21-809-4101
Tygon Tubing 1/4 inch x 1m	1921-1M
Metal Ball Joint Clip	JC-19
GazFit Connectors for 8mm OD arm (PKT 2)	GAZ-08
UniFit Right Angle Connector (PKT 3)	GAZ-04-90





Spray Chambers

Tracey
50mL Cyclonic 20-809-2665HE



Twister
50mL Cyclonic 20-809-2951HE

Scott Spray Chamber 20-809-4053



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
Hydride Kit KT-1160



Quartz Adaptor 21-809-3772



Quartz Adaptor with Aux Port 21-809-3771



Spray Chambers for HF

Tracey TFE
50mL Cyclonic 20-809-3717

Suitable for use with HF.
Requires Transfer Tube 21-809-3726.



PuraFlex Transfer Tube 21-809-3726



Torches

Quartz Torch

SpectroBlue EOP	31-808-3394
SpectroBlue TI	31-808-3468



Injectors for Quartz Torch

Quartz Injector 1.2mm	31-808-3410
Quartz Injector 1.8mm	31-808-3391
Quartz Injector 2.0mm	31-808-3411
Quartz Injector 3.0mm	31-808-3412
Alumina Injector 1.8mm	31-808-3409
Alumina Injector 2.5mm	31-808-3390



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier	70-803-1269
Elegra Stand	70-803-1581



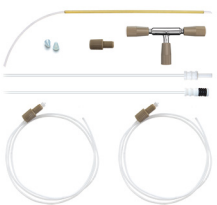
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793



For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2940



Glass DC Nebulizers

SeaSpray
2mL/min uptake A21-1-USS2

MicroMist
400µL/min uptake A21-1-UM04

Slurry
4mL/min uptake A21-1-US6

Conikal
2mL/min uptake A21-1-UC2



DC Nebulizers for HF

DuraMist
1mL/min uptake A21-1-DM1



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1141-XR

Comprises:

Glass Twister Spray Chamber	21-809-3185
Assembly (LOL)	20-809-5175
Adaptor 12/8 for SpectroBlue	31-808-3489
Glass Ball Cup Adaptor S19	21-809-4101
Tygon Tubing 1/4 inch x 1m	1921-1M
Metal Ball Joint Clip	JC-19
GazFit Connectors for 8mm OD arm (PKT 2)	GAZ-08
UniFit Right Angle Connector (PKT 3)	GAZ-04-90





Spray Chambers

Tracey
50mL Cyclonic 20-809-2665HE



Twister
50mL Cyclonic 20-809-2951HE



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
Hydride Kit KT-1160



Straight Quartz Adaptor 21-809-3773



Straight Quartz Adaptor with Aux Port 21-809-3804



Sheath Gas Adaptor 21-809-4083



Spray Chambers for HF

Tracey TFE
50mL Cyclonic 20-809-3717
Suitable for use with HF. Requires Transfer Tube 21-809-3727



Straight HF Resistant Adaptor 21-809-3727

Torches

Quartz Torch

SpectroBlue SOP	31-808-3405



Injectors for Quartz Torch

Quartz Injector 1.0mm	31-808-4148
Quartz Injector 1.2mm	31-808-3410
Quartz Injector 1.5mm	31-808-4234
Quartz Injector 1.8mm	31-808-3391
Quartz Injector 2.0mm	31-808-3411
Quartz Injector 2.5mm	31-808-4235
Quartz Injector 3.0mm	31-808-3412
Alumina Injector 1.8mm	31-808-3409
Alumina Injector 2.5mm	31-808-3390





Fixed Quartz Torch

Quartz Torch 1.8mm injector S19, SOP	30-808-4264



Fixed Quartz Torch

Quartz Torch 2.0mm injector S19, SOP	30-808-4403



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier	70-803-1269



Elegra Stand	70-803-1581



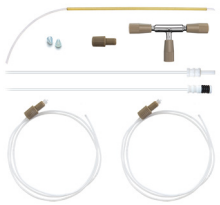
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923

Autosampler Probes

(See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793





For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2940



Glass DC Nebulizers

SeaSpray

400µL/min uptake A13-1-USS04

MicroMist

400µL/min uptake A13-1-UM04



Quartz DC Nebulizers

SeaSpray

1mL/min uptake A13-1-QSS1



DC Nebulizers for HF

OpalMist

400µL/min uptake A13-1-PFA04

100µL/min uptake A13-1-PFA01

50µL/min uptake A13-1-PFA005



Spray Chambers

High Efficiency Sample Introduction System

HE-SIS for Thermo ICP-MS KT-1172



Torches

Quartz Torch

Base for Q Torch 31-808-3494



Quartz Tube Set 31-808-3357



Ceramic Torch

Ceramic Outer Tube Set 31-808-4048



Torch Options:

Quartz Injector 1.0mm 31-808-3440

Quartz Injector 2.0mm 31-808-3898

Quartz Injector 2.5mm 31-808-3428

Sapphire Injector 2.0mm 31-808-4014

Tapered Alumina Injector 2.0mm 31-808-4012



O-ring Kit for Q Torch base (31-808-3494) 70-803-1535

O-ring Kit for Thermo Q Torch base 70-803-1611



RF Coils

Silver 70-900-4300S



RF Coil Installation Kit 70-900-4300T



Cones

Sampler Cones

Nickel Sampler with Copper Core	TG1021-Ni/Cu
Platinum Sampler with Copper Core	TG1026A-Pt/Cu



Skimmer Cones

Nickel Skimmer	TG1054-Ni
Platinum Skimmer	TG1058-Pt

Cone Extraction Tool	70-803-2050
Graphite Sampler Cone Gasket	TG5001



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier	70-803-1268
Elegra Dual Channel Argon Humidifier	70-803-2827



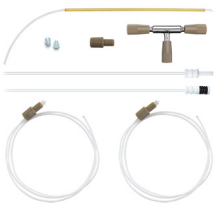
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Guardian Probe iSC-65 0.75mm Probe Connecting Line (Red)	70-803-2106
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793





For Thermo iSC-65

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2106



For ESI SC-DX Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2953



Glass DC Nebulizers

SeaSpray

400µL/min uptake A31-1-USS04

MicroMist

400µL/min uptake A31-1-UM04



Quartz DC Nebulizers

SeaSpray

1mL/min uptake A31-1-QSS1



DC Nebulizers for HF

OpalMist

400µL/min uptake A31-1-PFA04

100µL/min uptake A31-1-PFA01

50µL/min uptake A31-1-PFA005Q



DuraMist

400µL/min uptake A31-1-DM04



Spray Chambers

High Efficiency Sample Introduction System

HE-SIS for Thermo Q/RQ/TQ ICP-MS KT-1172



Torches

Quartz Torch

Base for Q Torch 31-808-3494



Quartz Tube Set 31-808-3357



Ceramic Torch

Ceramic Outer Tube Set 31-808-4048



Torch Options:

Quartz Injector 1.0mm 31-808-3440

Quartz Injector 2.0mm 31-808-3898

Quartz Injector 2.5mm 31-808-3428

Sapphire Injector 2.0mm 31-808-4014

Tapered Alumina Injector 2.0mm 31-808-4012



O-ring Kit for Q Torch base (31-808-3494) 70-803-1535

O-ring Kit for Thermo Q Torch base 70-803-1611



RF Coils

Silver 70-900-4300S



RF Coil Installation Kit 70-900-4300T



Cones

Sampler Cones

Nickel Sampler with Copper Core	TG1021-Ni/Cu
Aluminium Sampler	TG1021-Al
Platinum Sampler with Copper Core	TG1026A-Pt/Cu





Skimmer Cones

Nickel Skimmer Hot and Cold Plasma	TG1035-Ni
Platinum Skimmer Hot and Cold Plasma	TG1039-Pt
Nickel Skimmer (Robust Plasma)	TG1045-Ni
Eliminates need for insert.	
Nickel Skimmer (High Matrix)	TG1044-Ni
Eliminates need for insert.	
Platinum Skimmer (High Matrix)	TG1048-Pt
Eliminates need for insert.	
Cone Extraction Tool	70-803-2050
Skimmer Cone Guard	70-803-1028
Graphite Sampler Cone Gasket	TG5001









Cone Extraction Tool	70-803-2050



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier	70-803-1268



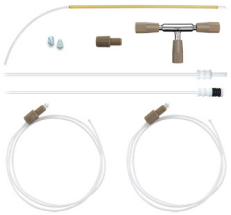
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793





For ESI SC-DX Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-2953



Glass DC Nebulizers

MicroMist

100µL/min uptake	A31-1-UM01
50µL/min uptake	A31-1-UM005



DC Nebulizers for HF

OpalMist

100µL/min uptake	A31-1-PFA01
50µL/min uptake	A31-1-PFA005Q



Spray Chambers

High Efficiency Sample Introduction System

HE-SIS for Thermo Neoma MC-ICP-MS	KT-1172



Torches

Quartz Torch

Base for Q Torch	31-808-3494
Quartz Tube Set	31-808-3357





Ceramic Torch

Ceramic Tube Set	31-808-4048



Torch Options:

Quartz Injector 1.0mm	31-808-3440
Quartz Injector 2.0mm	31-808-3898
Quartz Injector 2.5mm	31-808-3428
Sapphire Injector 2.0mm	31-808-4014
Tapered Alumina Injector 2.0mm	31-808-4012
O-ring Kit for Q Torch base (31-808-3494)	70-803-1535





Cones

Sampler Cones

Nickel Jet Sampler	TF1005-Ni
Nickel Sampler with Copper Core	TF1001-Ni/Cu
Platinum Sampler with Copper Core	TF1006-Pt/Cu



Skimmer Cones

Nickel Skimmer	TF1002A-Ni



Nickel X Skimmer with Copper Core	TF1002X-Ni



Platinum Skimmer (H, boron-free)	TF1008-Pt



Graphite Sampler Cone Gasket	TG5001



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1268



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

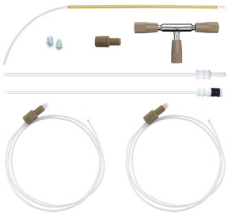
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Cetac ASX-112FR

Guardian Probe ASX-112FR 70-803-2029



For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1803

Polyimide sheathed Autosampler Probe 0.5mm ID 60-808-1186L



PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-1443

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0793



Glass DC Nebulizers

SeaSpray
2mL/min uptake A31-07-USS2

MicroMist
600µL/min uptake A31-07-UM06

Conikal
2mL/min uptake A31-07-UC2

Slurry
4mL/min uptake A31-07-US6



DC Nebulizers for HF

DuraMist
1mL/min uptake A31-07-DM1



OpalMist
2mL/min uptake A31-07-PFA2



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1166-XR

Comprises:

Glass Twister Spray Chamber	21-809-3185
Assembly (LOL)	20-809-5175
PuraFlex Transfer Tube	21-809-4426
UniFit Right Angle Connector (PKT 3)	GAZ-04-90





Spray Chambers

Tracey
50mL Cyclonic 20-809-2665HE



Twister
50mL Cyclonic 20-809-2951HE



Straight Ball Joint Adaptor 21-809-2723



Sheath Gas Adaptor 31-808-3891



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
Hydride Kit KT-1160



Spray Chambers for HF

Tracey TFE
50mL Cyclonic 20-809-9198



Torches

E-Torch	30-808-4388

NEW*



Comprises:

Body	31-808-4425
Quartz Plasma Tube	31-808-4390
Quartz Injector 2.0mm	31-808-2836
Injector Adaptor	31-808-4582
Retaining Ring	31-808-4498



E-Torch Options:

Ceramic Plasma Tube	31-808-4502
FKM O-Rings (PKT 10)	31-808-4381
Silicone O-rings 22X1.8S70 (PKT 10)	70-803-6475
Viton O-rings for FDT/SDT ball joints (PKT 10)	70-V-011
Injector Adaptor S19	31-808-5181







Tapered Injectors for E-Torch

Quartz Injector 0.75mm	31-808-3511
Quartz Injector 1.0mm	31-808-2833
Quartz Injector 1.5mm	31-808-2834



Capillary Injectors for E-Torch

Quartz Injector 1.0mm	31-808-3510
Quartz Injector 2.0mm	31-808-2836
Quartz Injector 2.5mm	31-808-3246
Quartz Injector 3.0mm	31-808-3247
Alumina Injector 1.0mm	31-808-3279
Alumina Injector 2.0mm	31-808-2835
Sapphire Injector 2.0mm	31-808-2977



Torches (continued)

Quartz Torch

EMT Design	31-808-4158



Tapered Injectors for EMT Torch

Quartz Injector 0.75mm	31-808-3511
Quartz Injector 1.0mm	31-808-2833
Quartz Injector 1.5mm	31-808-2834



Capillary Injectors for EMT Torch

Quartz Injector 1.0mm	31-808-3510
Quartz Injector 2.0mm	31-808-2836
Quartz Injector 2.5mm	31-808-3246
Quartz Injector 3.0mm	31-808-3247
Alumina Injector 1.0mm	31-808-3279
Alumina Injector 2.0mm	31-808-2835
Sapphire Injector 2.0mm	31-808-2977



RF Coils

RF Coil for PRO

Silver 70-900-4006S



Gold 70-900-4006G



RF Coil Installation Kit 70-900-4006T



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1268



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

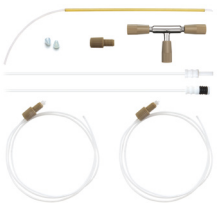
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes

(See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1803



Polyimide sheathed Autosampler Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-1443

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0793



For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2940



Glass DC Nebulizers

SeaSpray
2mL/min uptake A31-07-USS2

MicroMist
600µL/min uptake A31-07-UM06

Conikal
2mL/min uptake A31-07-UC2

Slurry
4mL/min uptake A31-07-US6



DC Nebulizers for HF

DuraMist
1mL/min uptake A31-07-DM1



OpalMist
2mL/min uptake A31-07-PFA2



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1166-XR

Comprises:

Glass Twister Spray Chamber	21-809-3185
Assembly (LOL)	20-809-5175
PuraFlex Transfer Tube	21-809-4426
UniFit Right Angle Connector (PKT 3)	GAZ-04-90





Spray Chambers

Tracey
50mL Cyclonic 20-809-2665HE



Twister
50mL Cyclonic 20-809-2951HE



Straight Ball Joint Adaptor 21-809-2723



Sheath Gas Adaptor 31-808-3891



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
Hydride Kit KT-1160



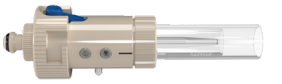
Spray Chambers for HF

Tracey TFE
50mL Cyclonic 20-809-9198



Torches

E-Torch 30-808-5163



Comprises:

Body	31-808-4425
Quartz Plasma Tube	31-808-5164
Quartz Injector 2.0mm	31-808-2836
Injector Adaptor	31-808-4582
Retaining Ring	31-808-4498



E-Torch Options:

Ceramic Plasma Tube	31-808-5165
FKM O-Rings (PKT 10)	31-808-4381
Silicone O-rings 22X1.8S70 (PKT 10)	70-803-6475
Viton O-rings for FDT/SDT ball joints (PKT 10)	70-V-011
Injector Adaptor S19	31-808-5181







Tapered Injectors for E-Torch

Quartz Injector 0.75mm	31-808-3511
Quartz Injector 1.0mm	31-808-2833
Quartz Injector 1.5mm	31-808-2834



Capillary Injectors for E-Torch

Quartz Injector 1.0mm	31-808-3510
Quartz Injector 2.0mm	31-808-2836
Quartz Injector 2.5mm	31-808-3246
Quartz Injector 3.0mm	31-808-3247
Alumina Injector 1.0mm	31-808-3279
Alumina Injector 2.0mm	31-808-2835
Sapphire Injector 2.0mm	31-808-2977



Torches (continued)

Quartz Torch

EMT Design 31-808-2810



Tapered Injectors for EMT Torch

Quartz Injector 0.75mm	31-808-3511
Quartz Injector 1.0mm	31-808-2833
Quartz Injector 1.5mm	31-808-2834



Capillary Injectors for EMT Torch

Quartz Injector 1.0mm	31-808-3510
Quartz Injector 2.0mm	31-808-2836
Quartz Injector 2.5mm	31-808-3246
Quartz Injector 3.0mm	31-808-3247
Alumina Injector 1.0mm	31-808-3279
Alumina Injector 2.0mm	31-808-2835
Sapphire Injector 2.0mm	31-808-2977



RF Coils

RF Coil for PRO

Silver 70-900-4006S



Gold 70-900-4006G



RF Coil Installation Kit 70-900-4006T



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1268



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

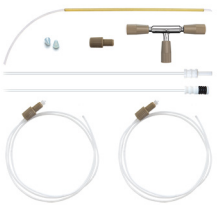
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes

(See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1803



Polyimide sheathed Autosampler Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-1443



PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0793

For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2940



Glass DC Nebulizers

SeaSpray
2mL/min uptake A31-07-USS2

MicroMist
600µL/min uptake A31-07-UM06

Conikal
2mL/min uptake A31-07-UC2

Slurry
4mL/min uptake A31-07-US6



DC Nebulizers for HF

DuraMist
1mL/min uptake A31-07-DM1



OpalMist
2mL/min uptake A31-07-PFA2



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1015-XR

Comprises:
Glass Spray Chamber 21-809-3186
Assembly (ROL) 20-809-5176
PuraFlex Transfer Tube 21-809-3455
UniFit Right Angle Connector (PKT 3) GAZ-04-90





Spray Chambers

Tracey
50mL Cyclonic 20-809-2665HE



Twister
50mL Cyclonic 20-809-2951HE



Adaptor
Right Angle With Ball Joint 21-809-2761
Right Angle With Ball Joint (105mm long) 21-809-4237



HydraMist Simultaneous Cold Vapor/ Pneumatic Nebulization Spray Chamber
Thermo Duo 7600 Hydride Kit KT-1156
Thermo Duo 6000/7200/7400 Hydride Kit KT-1179



Spray Chambers for HF

Tracey TFE
50mL Cyclonic 20-809-3469



Torches

D-Torch	30-808-2844
Comprises:	
Base and Inner Tube	31-808-2932
Quartz Outer Tube	31-808-2840
D-Torch Options:	
Ceramic Outer Tube	31-808-3834
Optic Fibre 170mm	31-808-2933
Optic Fibre 450mm	31-808-3117
Retaining Ring	31-808-2707
Injector Adaptor	31-808-2895
Injector Ferrule	31-808-2897
PTFE Coated Viton O-rings (PKT 10)	VT-007
Viton O-rings (PKT 10)	V-026
O-ring kit for Thermo 6000/7000/PRO D-Torch	70-803-1921
O-ring and Seal kit for Thermo Torch & Windows	70-803-1550







Ceramic Outer Tube and Optic Fibre for D-Torch	31-808-3079
Comprises:	
Ceramic Outer Tube	31-808-3834
Optic Fibre 170mm	31-808-2933
Optic Fibre 450mm	31-808-3117



Quartz Torch	
EMT Design	31-808-2811



Tapered Injectors for D-Torch & EMT Torch	
Quartz Injector 1.0mm	31-808-2833
Quartz Injector 1.5mm	31-808-2834



Torches (continued)

Capillary Injectors for D-Torch & EMT Torch	
Quartz Injector 2.0mm	31-808-2836
Quartz Injector 2.5mm	31-808-3246
Quartz Injector 3.0mm	31-808-3247
Alumina Injector 1.0mm	31-808-3279
Alumina Injector 2.0mm	31-808-2835
Sapphire Injector 2.0mm	31-808-2977



Duo Periscope Window	31-808-2677
O-ring for Periscope Window (PKT 10)	70-803-1603



Quartz Window	70-803-1116



Purged Optical Path (POP) Assembly	70-803-1571
Window & O-Ring for Purged Optical Path (POP)	70-803-1892
O-ring for Thermo ICP Duo Periscope Window, (PKT 10)	70-803-1603



RF Coils

RF Coil for 6000	
Silver, Teflon Coated	70-900-4002S
Gold, Teflon Coated	70-900-4002G



RF Coil for 7000/6000 Mark II	
Silver, Teflon Coated	70-900-4005S
Gold, Teflon Coated	70-900-4005G



RF Coil Installation Kit	70-900-4002T



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1268



Guardian In-Line Filters

Guardian DC in-line non-return gas filter 70-803-1942

Guardian in-line sample filter 70-803-1108

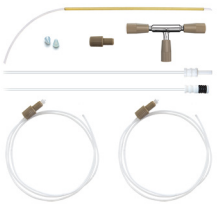
Eluo Adaptor for Inline Filter 70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit 60-703-1179

Standard Kit for HF 60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-1803

Polyimide sheathed Autosampler Probe 0.5mm ID 60-808-1186L

PTFE Encapsulated Carbon Fibre Probe 0.5mm ID 70-803-0784

PTFE Encapsulated Carbon Fibre Probe 0.75mm ID 70-803-1443

PTFE Encapsulated Carbon Fibre Probe 1.0mm ID 70-803-0793





For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2940



Glass DC Nebulizers

SeaSpray
2mL/min uptake A31-07-USS2

MicroMist
600µL/min uptake A31-07-UM06

Conikal
2mL/min uptake A31-07-UC2

Slurry
4mL/min uptake A31-07-US6



DC Nebulizers for HF

DuraMist
1mL/min uptake A31-07-DM1



OpalMist
2mL/min uptake A31-07-PFA2



IsoMist XR

Programmable Temperature Cyclonic Spray Chamber
IsoMist XR Kit KT-1021-XR

Comprises:

Glass Twister Spray Chamber	21-809-3185
Assembly (LOL)	20-809-5175
PuraFlex Transfer Tube	21-809-3348
Glass Adaptor MB13-32	31-808-2790
Metal Ball Joint Clip	JC-13
UniFit Right Angle Connector (PKT 3)	GAZ-04-90





Spray Chambers

Tracey
50mL Cyclonic 20-809-2665HE



Twister
50mL Cyclonic 20-809-2951HE



Straight Ball Joint Adaptor 21-809-2723



Sheath Gas Adaptor 31-808-3891



Spray Chambers for HF

Tracey TFE
50mL Cyclonic 20-809-9198



Torches

D-Torch 30-808-2877

Comprises:

Base and Inner Tube	31-808-2932
Quartz Outer Tube	31-808-2878
Retaining Ring	31-808-2707
Injector Adaptor	31-808-2895
Injector Ferrule	31-808-2897





D-Torch Options:

Ceramic Outer Tube	31-808-3836
PTFE Coated Viton O-rings (PKT 10)	VT-007
Viton O-rings (PKT 10)	V-026
O-ring kit for Thermo 6000/7000/PRO D-Torch	70-803-1921
O-ring and Seal kit for Thermo Torch & Windows	70-803-1550





Quartz Torch

EMT Design 31-808-2810



Tapered Injectors for D-Torch & EMT Torch

Quartz Injector 1.0mm	31-808-2833
Quartz Injector 1.5mm	31-808-2834



Capillary Injectors for D-Torch & EMT Torch

Quartz Injector 2.0mm	31-808-2836
Alumina Injector 1.0mm	31-808-3279
Alumina Injector 2.0mm	31-808-2835
Sapphire Injector 2.0mm	31-808-2977



RF Coils

RF Coil for 6000 Mark I

Silver, Teflon Coated	70-900-4002S
Gold, Teflon Coated	70-900-4002G



RF Coil for 7000/6000 Mark II

Silver, Teflon Coated	70-900-4005S
Gold, Teflon Coated	70-900-4005G



RF Coil Installation Kit 70-900-4002T



Common Accessories

Elegra Argon Humidifier

Elegra Argon Humidifier 70-803-1268



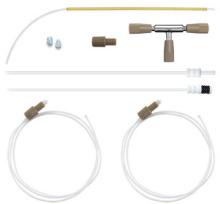
Guardian In-Line Filters

Guardian DC in-line non-return gas filter	70-803-1942
Guardian in-line sample filter	70-803-1108
Eluo Adaptor for Inline Filter	70-803-1160



Trident Internal Standard Kits

Trident CT Standard Kit	60-703-1179
Standard Kit for HF	60-808-1150



Magnifier Inspection Tool 70-803-1923



Autosampler Probes (See page 22-23 for complete list of probes)

For Cetac ASX-200/500/800 Series

Guardian Probe 0.75mm Probe Connecting Line (Red)	70-803-1803
Polyimide sheathed Autosampler Probe 0.5mm ID	60-808-1186L
PTFE Encapsulated Carbon Fibre Probe 0.5mm ID	70-803-0784
PTFE Encapsulated Carbon Fibre Probe 0.75mm ID	70-803-1443
PTFE Encapsulated Carbon Fibre Probe 1.0mm ID	70-803-0793





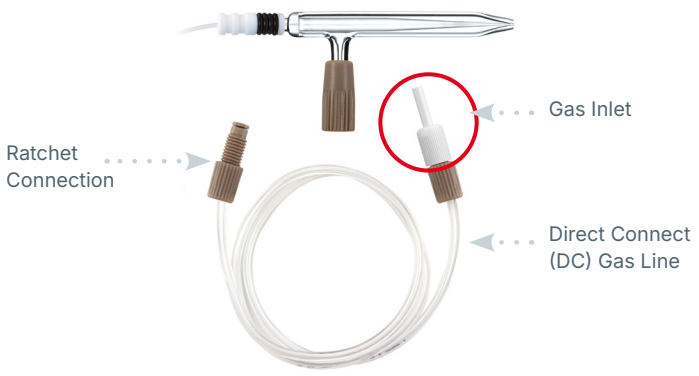
For Cetac ASX-7400, 7600 Series

Guardian Probe 0.75mm Probe Connecting Line (Red) 70-803-2940



DC Nebulizer Gas Fitting Connectors

Agilent® 4100/4200	70-803-0969
Agilent® Vista/700-ES	70-803-0969
Agilent® 7700/7800/7900/8800/8900	70-803-1105
Agilent® 5100/5110/5800/5900	70-803-1105
Analytik Jena® ICP-MS	70-803-2002
Analytik Jena® ICP-OES	70-803-1105
Horiba® Jobin Yvon (All models)	70-803-1105
Nu Instruments ICP-MS	70-803-1858
Nu Instruments TOF-ICP-MS	70-803-2044
PerkinElmer® Optima and Avio	70-803-1070
PerkinElmer® Elan/NexION 300/350	70-803-1049
PerkinElmer® NexION 1000, 1100, 2000, 2200, 5000	70-803-1449
Shimadzu® (All models)	70-803-1311
Spectro™ (All models)	70-803-1070
Standard BioTools™ Helios	70-803-1070
Thermo Scientific™ PRO, 6000/7000, Q/RQ/TQ, X-Series & Neoma	70-803-1105
Thermo Scientific™ MX Series	70-803-1105
Thermo Scientific™ Neptune	70-803-0969
Elegra to DC Nebulizer	70-803-1278
ICP Gas Inlet Fitting Type 11/61	70-803-1934
ICP Gas Inlet Fitting Type 13/31	70-803-1504
ICP Gas Inlet Fitting Type 15	70-803-2919
ICP Gas Inlet Fitting Type 21	70-803-1069
ICP Gas Inlet Fitting Type 22	70-803-2110
ICP Gas Inlet Fitting Type 23	70-803-2111
ICP Gas Inlet Fitting Type 41	70-803-1562
ICP Gas Inlet Fitting Type 51	70-803-1857
ICP Gas Inlet Fitting Type 52	70-803-2048
ICP Gas Inlet Fitting Type 70	70-803-2084

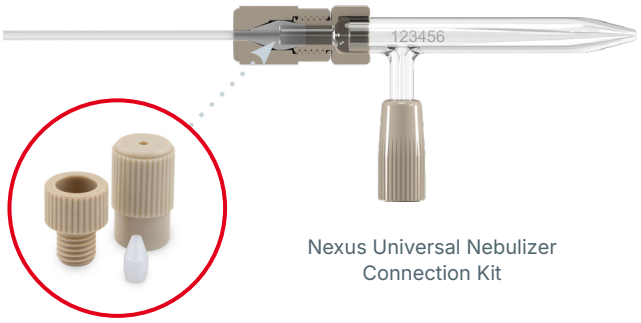


DC Nebulizer Gas Fititng

Nexus Universal Nebulizer Connection Kit

The Nexus Universal Nebulizer Connection Kit is a quick and easy way to ensure a leak tight connection of 1/16" or 1.3mm OD sample capillary to a Glass Expansion concentric nebulizer such as the SeaSpray, Conikal, MicroMist, DuraMist or OpalMist nebulizers. If you need to make a leak tight seal to your nebulizer - whether it is to a HPLC for speciation or a high throughput switching valve use this kit.

Nexus Universal Nebulizer Connection Kit (Suitable for DuraMist, OpalMist and glass concentric nebulizers)	FT-16-8-X
Nexus Universal Nebulizer Connection Kit (Suitable for all glass concentric nebulizers)	FT-16-8



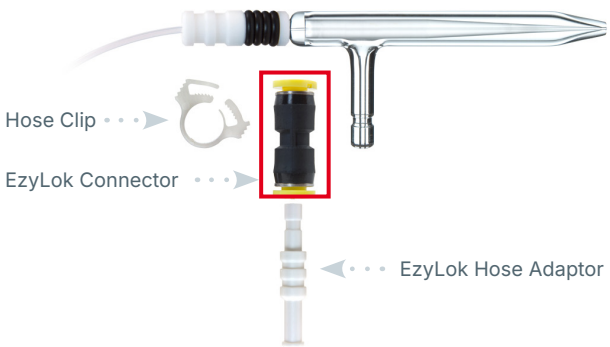
Nexus Universal Nebulizer Connection Kit

EzyLok Kit for Nebulizer Gas Side Arm

EzyLok Kit	EL-1

Comprises:

EzyLok Connector for 4mm Tubing	QSM-4
EzyLok 6mm Hose Adaptor	70-808-0735
Hose Clip, 6mm	SNP-1



Tubing Connector

1.3mm to 1/16 inch	FT-16-1.3
1/16 inch to 1/16 inch	FT-16-1.6



Tubing Connector 1.3mm to 1/16 inch

UniFit Connectors (PKT 10)

0.07mm ID x 1/16" OD x 700mm long	NFT-16-07
0.13mm ID x 1/16" OD x 700mm long	NFT-16-13
0.18mm ID x 1/16" OD x 700mm long	NFT-16-18
0.25mm ID x 1/16" OD x 700mm long	NFT-16-25
0.25mm ID x 1/16" OD x 1500mm long	NFTS-16-25
0.75mm ID x 1/16" OD x 700mm long	NFT-16-75
0.75mm ID x 1/16" OD x 1500mm long	NFTS-16-75



UniFit
with sample tube

PTFE Sample Tubing

0.25mm ID x 1/16" OD x 10m long	STT-16-25
0.50mm ID x 1/16" OD x 10m long	STT-16-50
0.75mm ID x 1/16" OD x 10m long	STT-16-75
1.0mm ID x 1/16" OD x 10m long	STT-16-100
0.07mm ID x 1/16" OD x 10m long	PFT-16-07
0.13mm ID x 1/16" OD x 10m long	PFT-16-13
0.18mm ID x 1/16" OD x 10m long	PFT-16-18
1/8" ID x 1/4" OD x 1m long	1/4PFA-HW

Other Tubing

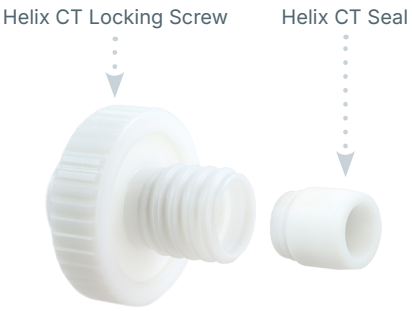
Reagent tube 1.6mm OD x 1.0mm ID x 1400mm long with PTFE Sinker (PKT. 3)	70-803-0752



Reagent tube with
PTFE Sinker

Helix & Helix CT Spray Chambers

Helix CT:	
Helix CT Locking Screw with Seal	70-803-1439
Helix CT Locking Screw with Seal for MiraMist	70-803-1470
Helix CT Seal (PKT 4)	70-803-1456
Helix:	
Helix Locking Screw	70-100-0152
Helix Seal (PKT 4)	70-100-0237



Helix CT Locking Screw with Seal

O-Rings Spray Chambers

O-ring set for Large Adaptor (Tracey, Twister)	70-808-0501
O-ring set for Small Adaptor (Cinnabar, Twinnabar)	21-808-0818
Teflon coated Viton O-Rings for spray chamber, nebulizer seal (PKT 10)	VT-009
Teflon coated Viton O-Rings for spray chamber, 16mm large adaptor seal (PKT 10)	VT-10/2
Silicon o-rings for spray chamber, nebulizer seal (PKT 10)	S-009

GazFit Connectors for Torches

GazFit Connectors (PKT 2), for 8mm OD arm	GAZ-08
GazFit Connectors (PKT 4), for 6mm OD torch side arms	GAZ-06
GazFit Connectors (PKT 4), 2 for 6mm OD torch side arms, 2 for 4mm OD torch side arms	GAZ-0604
GazFit Connectors (PKT 4), for 5mm OD torch side arms	GAZ-05
GazFit Connectors (PKT 4), for 4mm OD torch side arms	GAZ-04

GazFit connectors are only suitable for torches with tolerances of no more than +/- 0.15mm on the diameter of the side arms.

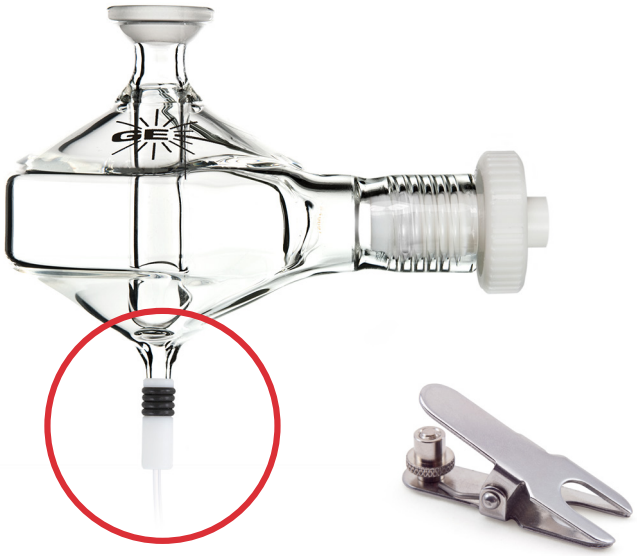
All Glass Expansion torches meet this specification.



GazFit Connectors

Clips & Connectors for Spray Chambers

Metal Ball Joint Clip (to connect spray chamber and torch)	JC-13
Metal Ball Joint Clip (to connect spray chamber and torch with S19)	JC-19
Nickel Joint Clip B14 (to connect spray chamber and drain adaptors)	KCM-14
UniFit Connector with sample tube, 0.75mm ID x 1/16" OD x 700mm long (PKT 3)	UFT-16-75
UniFit Connector with sample tube, 0.75mm ID x 1.3mm OD x 700mm long (PKT 3)	UFT-075
UniFit Connector with sample tube, 0.86mm ID x 2mm OD x 480mm long (PKT 3)	UFT-2-86
UniFit Connector with sample tube, 0.86mm ID x 2mm OD x 700mm long (PKT 3)	UFT-2-700
Connector Assembly for Agilent® Scott Spray Chamber	70-803-1476
HydraMist Drain (PKT 4)	GAZ-08-4



UniFit Connector with sample tube Metal Ball Joint Clip JC-13

O-Rings for Torches

Viton O-Rings for demountable torch ball joint connectors (PKT 10)	70-V-011



PVC Peristaltic Pump Tubing

All tubes made from Tygon R3603/R3607 or equivalent. Supplied in packs of 12 tubes.

Special Properties:

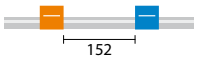
Inexpensive all-round tubing for general laboratory applications.

Advantages:

- Resistant to almost all inorganic materials.
- Does not age.
- Low gas permeability.
- Smooth inner surface.

Limitations:

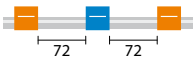
- Potential leaching of plasticizers.



PVC, 2 Bridged, 152mm

(152mm between tags)

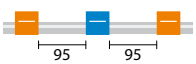
Tag Colours	ID (mm)	P/N
orange/black	0.13	0.13-OBLK
orange/red	0.19	0.19-OR
orange/blue	0.25	0.25-OB
orange/green	0.38	0.38-OG
green/yellow	0.44	0.44-GY
orange/yellow	0.51	0.51-OY
white/yellow	0.57	0.57-WY
orange/white	0.64	0.64-OW
black/black	0.76	0.76-BLK
orange/orange	0.89	0.89-ORG
white/black	0.95	0.95-WBLK
white/white	1.02	1.02-WHT
white/red	1.09	1.09-WR
red/red	1.14	1.14-RED
red/grey	1.22	1.22-RGRY
grey/grey	1.30	1.30-GRY
yellow/yellow	1.42	1.42-YLW
yellow/blue	1.52	1.52-YB
blue/blue	1.65	1.65-BLU
blue/green	1.75	1.75-BG
green/green	1.85	1.85-GRN
purple/purple	2.06	2.06-PUR
purple/black	2.29	2.29-PBLK
purple/orange	2.54	2.54-PO
purple/white	2.79	2.79-PW
black/white	3.17	3.17-BLKW



PVC, 3 Bridged, 72mm

(72mm between tags)

Tag Colours	ID (mm)	P/N
orange/black	0.13	0.13-OBLK3B
orange/red	0.19	0.19-OR3B
orange/blue	0.25	0.25-OB3B
orange/green	0.38	0.38-OG3B
green/yellow	0.44	0.44-GY3B
orange/yellow	0.51	0.51-OY3B
white/yellow	0.57	0.57-WY3B
orange/white	0.64	0.64-OW3B
black/black	0.76	0.76-BLK3B
orange/orange	0.89	0.89-ORG3B
white/black	0.95	0.95-WBLK3B
white/white	1.02	1.02-WHT3B
white/red	1.09	1.09-WR3B
red/red	1.14	1.14-RED3B
red/grey	1.22	1.22-RGRY3B
grey/grey	1.30	1.30-GRY3B
yellow/yellow	1.42	1.42-YLW3B
yellow/blue	1.52	1.52-YB3B
blue/blue	1.65	1.65-BLU3B
green/green	1.85	1.85-GRN3B
purple/purple	2.06	2.06-PUR3B
purple/black	2.29	2.29-PBLK3B
purple/orange	2.54	2.54-PO3B
purple/white	2.79	2.79-PW3B
black/white	3.17	3.17-BLKW3B



PVC, 3 Bridged, 95mm

(95mm between tags)

Tag Colours	ID (mm)	P/N
orange/blue	0.25	0.25-OB3B-95
orange/green	0.38	0.38-OG3B-95
orange/yellow	0.51	0.51-OY3B-95
orange/white	0.64	0.64-OW3B-95
black/black	0.76	0.76-BLK3B-95
orange/orange	0.89	0.89-ORG3B-95
white/white	1.02	1.02-WHT3B-95
grey/grey	1.30	1.30-GRY3B-95
yellow/blue	1.52	1.52-YB3B-95
green/green	1.85	1.85-GRN3B-95
purple/white	2.79	2.79-PW3B-95

Solva Peristaltic Pump Tubing

All tubes made from Tygon 4040 or equivalent. Supplied in packs of 12 tubes.

Special Properties:

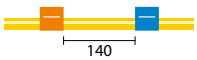
Special tubing for hydrocarbons, petroleum products and distillates.

Advantages:

- Specially formulated to transport hydrocarbons, petroleum products and distillates.
- Ideal for gasoline, kerosene, heating oils, cutting liquids and coolants based on glycols.
- Low gas permeability.

Limitations:

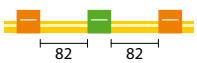
- Not recommended for strong acids and alkalies, foodstuffs, beverages and medicines.
- Potential leaching of plasticizers.



Solva, 2 Bridged, 140mm

(140mm between tags)

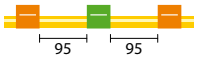
Tag Colours	ID (mm)	P/N
orange/blue	0.25	0.25-OB-SF
orange/green	0.38	0.38-OG-SF
orange/yellow	0.51	0.51-OY-SF
orange/white	0.64	0.64-OW-SF
black/black	0.76	0.76-BLK-SF
orange/orange	0.89	0.89-ORG-SF
white/white	1.02	1.02-WHT-SF
red/red	1.14	1.14-RED-SF
grey/grey	1.30	1.30-GRY-SF
yellow/yellow	1.42	1.42-YLW-SF
yellow/blue	1.52	1.52-YB-SF
blue/blue	1.65	1.65-BLU-SF
green/green	1.85	1.85-GRN-SF
purple/purple	2.06	2.06-PUR-SF
purple/black	2.29	2.29-PBLK-SF
purple/orange	2.54	2.54-PO-SF
purple/white	2.79	2.79-PW-SF



Solva, 3 Bridged, 82mm

(82mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-OG3B-SF
black/black	0.76	0.76-BLK3B-SF
orange/orange	0.89	0.89-ORG3B-SF
white/white	1.02	1.02-WHT3B-SF
red/red	1.14	1.14-RED3B-SF
grey/grey	1.30	1.30-GRY3B-SF



Solva, 3 Bridged, 95mm

(95mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-OG3B-95-SF
orange/yellow	0.51	0.51-OY3B-95-SF
black/black	0.76	0.76-BLK3B-95-SF
orange/orange	0.89	0.89-ORG3B-95-SF
white/white	1.02	1.02-WHT3B-95-SF
yellow/blue	1.52	1.52-YB3B-95-SF

Viton® Peristaltic Pump Tubing

All tubes made from Fluran HC F-5500-A or equivalent.

Special Properties:

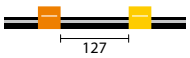
Special tubing for concentrated acids and corrosive solvents.

Advantages:

- High chemical resistance.
- Low gas permeability.
- Wide temperature range.

Limitations:

- Limited service life.



Viton®, 2 Bridged, 127mm

(127mm between tags)

Tag Colours	ID (mm)	P/N
orange/yellow	0.51	VS0.51-OY
orange/white	0.64	VS0.64-OW
black/black	0.76	VS0. 76-BLK
orange/orange	0.89	VS0.89-ORG
white/white	1.02	VS1.02-WHT
red/red	1.14	VS1.14-RED
grey/grey	1.30	VS1.30-GRY
yellow/yellow	1.42	VS1.42-YLW
yellow/blue	1.52	VS1.52-YB
blue/blue	1.65	VS1.65-BLU
green/green	1.85	VS1.85-GRN
purple/purple	2.06	VS2.06-PUR
purple/black	2.29	VS2.29-PBLK
purple/orange	2.54	VS2.54-PO
purple/white	2.79	VS2.79-PW

Supplied in packs of 12 tubes

Tygon® MH Peristaltic Pump Tubing

All tubes made from Tygon MHSL 2001.

Special Properties:

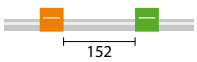
- Environmental-friendly tubing especially designed for solvents.
- Suitable for MIBK.

Advantages:

- High chemical resistance.
- Low gas permeability.
- Wide temperature range.

Limitations:

Limited service life.

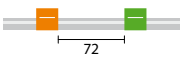


Tygon® MH , 2 Bridged, 152mm

(152mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-OG-MH
orange/white	0.64	0.64-OW-MH
white/white	1.02	1.02-WHT-MH
yellow/blue	1.52	1.52-YB-MH
purple/purple	2.06	2.06-PUR-MH
purple/white	2.79	2.79-PW-MH

Supplied in packs of 6 tubes



Tygon® MH , 2 Bridged, 72mm

(72mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-OG-MH3
orange/white	0.64	0.64-OW-MH3
white/white	1.02	1.02-WHT-MH3
yellow/blue	1.52	1.52-YB-MH3
purple/purple	2.06	2.06-PUR-MH3
purple/white	2.79	2.79-PW-MH3

Supplied in packs of 6 tubes

It can be quite difficult to insert the sample tubing into the peristaltic pump tubes. This is particularly so for pump tubing with a small ID. To facilitate this connection, Glass Expansion supplies Contour flared-end pump tubing. The flared end of this pump tubing allows the larger capillary tubing to be inserted into the smaller pump tubing.

Any of the pump tubing that we normally supply can be supplied with flared end. Simply add "-F" to the end of the part number (eg. 0.38-OG-F). The flared-end tubing is supplied in packs of 6.

Contour Flared-end PVC Peristaltic Pump Tubing

All tubes made from Tygon R3603/R3607 or equivalent. Supplied in packs of 6 tubes.

Special Properties:

Inexpensive all-round tubing for general laboratory applications.

Advantages:

- Transparent.
- Resistant to almost all inorganic materials.
- Does not age.
- Low gas permeability.
- Smooth inner surface.

Limitations:

- Potential leaching of plasticizers.



PVC, 2 Bridged, 152mm

(152mm between tags)

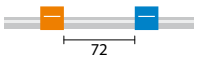
Tag Colours	ID (mm)	P/N
orange/black	0.13	0.13-OBLK-F
orange/red	0.19	0.19-OR-F
orange/blue	0.25	0.25-OB-F
orange/green	0.38	0.38-OG-F
green/yellow	0.44	0.44-GY-F
orange/yellow	0.51	0.51-OY-F
white/yellow	0.57	0.57-WY-F
orange/white	0.64	0.64-OW-F
black/black	0.76	0.76-BLK-F
orange/orange	0.89	0.89-ORG-F
white/black	0.95	0.95-WBLK-F
white/white	1.02	1.02-WHT-F
white/red	1.09	1.09-WR-F
red/red	1.14	1.14-RED-F
red/grey	1.22	1.22-RGRY-F
grey/grey	1.30	1.30-GRY-F
yellow/yellow	1.42	1.42-YLW-F
yellow/blue	1.52	1.52-YB-F



PVC, 2 Bridged, 152mm

(152mm between tags) (continued)

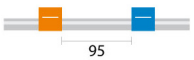
Tag Colours	ID (mm)	P/N
blue/blue	1.65	1.65-BLU-F
blue/green	1.75	1.75-BG-F
green/green	1.85	1.85-GRN-F
purple/purple	2.06	2.06-PUR-F
purple/black	2.29	2.29-PBLK-F
purple/orange	2.54	2.54-PO-F
purple/white	2.79	2.79-PW-F
black/white	3.17	3.17-BLKW-F



PVC, 2 Bridged, 72mm

(72mm between tags)

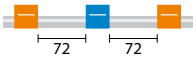
Tag Colours	ID (mm)	P/N
orange/red	0.19	0.19-OR-F-S
orange/blue	0.25	0.25-OB-F-S
black/black	0.76	0.76-BLK-F-S
orange/orange	0.89	0.89-ORG-F-S
white/white	1.02	1.02-WHT-F-S



PVC, 2 Bridged, 95mm

(95mm between tags)

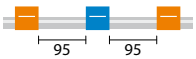
Tag Colours	ID (mm)	P/N
orange/red	0.19	0.19-OR-95-F-S
orange/blue	0.25	0.25-OB-95-F-S
orange/green	0.38	0.38-OG-95-F-S
green/yellow	0.44	0.44-GY-95-F-S
orange/yellow	0.51	0.51-OY-95-F-S
orange/white	0.64	0.64-OW-95-F-S
black/black	0.76	0.76-BLK-95-F-S
grey/grey	1.30	1.30-GRY-95-F-S



PVC, 3 Bridged, 72mm

(72mm between tags)

Tag Colours	ID (mm)	P/N
orange/black	0.13	0.13-OBLK3B-F
orange/red	0.19	0.19-OR3B-F
orange/blue	0.25	0.25-OB3B-F
orange/green	0.38	0.38-OG3B-F
green/yellow	0.44	0.44-GY3B-F
orange/yellow	0.51	0.51-OY3B-F
white/yellow	0.57	0.57-WY3B-F
orange/white	0.64	0.64-OW3B-F
black/black	0.76	0.76-BLK3B-F
orange/orange	0.89	0.89-ORG3B-F
white/black	0.95	0.95-WBLK3B-F
white/white	1.02	1.02-WHT3B-F
white/red	1.09	1.09-WR3B-F
red/red	1.14	1.14-RED3B-F
red/grey	1.22	1.22-RGRY3B-F
grey/grey	1.30	1.30-GRY3B-F
yellow/yellow	1.42	1.42-YLW3B-F
yellow/blue	1.52	1.52-YB3B-F
blue/blue	1.65	1.65-BLU3B-F
green/green	1.85	1.85-GRN3B-F
purple/purple	2.06	2.06-PUR3B-F
purple/black	2.29	2.29-PBLK3B-F
purple/orange	2.54	2.54-PO3B-F
purple/white	2.79	2.79-PW3B-F
black/white	3.17	3.17-BLKW3B-F



PVC, 3 Bridged, 95mm

(95mm between tags)

Tag Colours	ID (mm)	P/N
orange/blue	0.25	0.25-OB3B-95-F
orange/green	0.38	0.38-OG3B-95-F
orange/yellow	0.51	0.51-OY3B-95-F
black/black	0.76	0.76-BLK3B-95-F
orange/orange	0.89	0.89-ORG3B-95-F
white/white	1.02	1.02-WHT3B-95-F
grey/grey	1.30	1.30-GRY3B-95-F
yellow/blue	1.52	1.52-YB3B-95-F
green/green	1.85	1.85-GRN3B-95-F
purple/white	2.79	2.79-PW3B-95-F

Contour Flared-end Solva Peristaltic Pump Tubing

All tubes made from Tygon 4040 or equivalent. Supplied in packs of 6 tubes.

Special Properties:

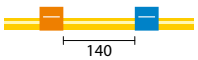
Special tubing for hydrocarbons, petroleum products and distillates.

Advantages:

- Specially formulated to transport hydrocarbons, petroleum products and distillates.
- Ideal for gasoline, kerosene, heating oils, cutting liquids and coolants based on glycols.
- Low gas permeability.

Limitations:

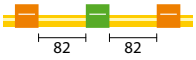
- Not recommended for strong acids and alkalies, foodstuffs, beverages and medicines.
- Potential leaching of plasticizers.



Solva, 2 Bridged, 140mm

(140mm between tags)

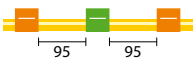
Tag Colours	ID (mm)	P/N
orange/blue	0.25	0.25-OB-SF-F
orange/green	0.38	0.38-OG-SF-F
orange/yellow	0.51	0.51-OY-SF-F
orange/white	0.64	0.64-OW-SF-F
black/black	0.76	0.76-BLK-SF-F
orange/orange	0.89	0.89-ORG-SF-F
white/white	1.02	1.02-WHT-SF-F
red/red	1.14	1.14-RED-SF-F
grey/grey	1.30	1.30-GRY-SF-F
yellow/yellow	1.42	1.42-YLW-SF-F
yellow/blue	1.52	1.52-YB-SF-F
blue/blue	1.65	1.65-BLU-SF-F
green/green	1.85	1.85-GRN-SF-F
purple/purple	2.06	2.06-PUR-SF-F
purple/black	2.29	2.29-PBLK-SF-F
purple/orange	2.54	2.54-PO-SF-F
purple/white	2.79	2.79-PW-SF-F



Solva, 3 Bridged, 82mm

(82mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-OG3B-SF-F
black/black	0.76	0.76-BLK3B-SF-F
orange/orange	0.89	0.89-ORG3B-SF-F
red/red	1.14	1.14-RED3B-SF-F
grey/grey	1.30	1.30-GRY3B-SF-F



Solva, 3 Bridged, 95mm

(95mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-OG3B-95-SF-F
orange/yellow	0.51	0.51-OY3B-95-SF-F
black/black	0.76	0.76-BLK3B-95-SF-F
orange/orange	0.89	0.89-ORG3B-95-SF-F
white/white	1.02	1.02-WHT3B-95-SF-F
yellow/blue	1.52	1.52-YB3B-95-SF-F

Contour Flared-end Viton® Peristaltic Pump Tubing

All tubes made from Fluran HC F-5500-A or equivalent.

Special Properties:

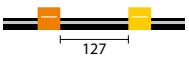
Special tubing for concentrated acids and corrosive solvents.

Advantages:

- High chemical resistance.
- Low gas permeability.
- Wide temperature range.

Limitations:

Limited service life.



Viton®, 2 Bridged, 127mm

(127mm between tags)

Tag Colours	ID (mm)	P/N
orange/yellow	0.51	VS0.51-OY-F
orange/white	0.64	VS0.64-OW-F
black/black	0.76	VS0.76-BLK-F
orange/orange	0.89	VS0.89-ORG-F
white/white	1.02	VS1.02-WHT-F
red/red	1.14	VS1.14-RED-F
grey/grey	1.30	VS1.30-GRY-F
yellow/yellow	1.42	VS1.42-YLW-F
yellow/blue	1.52	VS1.52-YB-F
blue/blue	1.65	VS1.65-BLU-F
green/green	1.85	VS1.85-GRN-F
purple/purple	2.06	VS2.06-PUR-F
purple/black	2.29	VS2.29-PBLK-F
purple/orange	2.54	VS2.54-PO-F
purple/white	2.79	VS2.79-PW-F

Supplied in packs of 6 tubes

Contour Flared-end Tygon® MH Peristaltic Pump Tubing

All tubes made from Tygon MHSL 2001.

Special Properties

- Environmental-friendly tubing especially designed for solvents.
- Suitable for MIBK.

Advantages:

- High chemical resistance.
- Low gas permeability.
- Wide temperature range.

Limitations:

Limited service life.

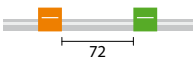


Tygon® MH, 2 Bridged, 152mm

(152mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-OG-MH-F
orange/white	0.64	0.64-OW-MH-F
white/white	1.02	1.02-WHT-MH-F
yellow/blue	1.52	1.52-YB-MH-F
purple/purple	2.06	2.06-PUR-MH-F
purple/white	2.79	2.79-PW-MH-F

Supplied in packs of 6 tubes



Tygon® MH, 2 Bridged, 72mm

(72mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-OG-MH3-F
orange/white	0.64	0.64-OW-MH3-F
white/white	1.02	1.02-WHT-MH3-F
yellow/blue	1.52	1.52-YB-MH3-F
purple/purple	2.06	2.06-PUR-MH3-F
purple/white	2.79	2.79-PW-MH3-F

Supplied in packs of 6 tubes

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