

ICP-OES/ICP-MS

SUPPLIES & ACCESSORIES

torches



coils



spray
chambers



cones



nebulizers



accessories



GLASS EXPANSION

Quality By Design

Issue 8

NEBULIZERS FOR AQUEOUS AND ORGANICS ANALYSES

SeaSpray – The High Performance Nebulizer

The SeaSpray glass concentric nebulizer offers outstanding nebulization efficiency for trace level analyses. It offers the highest sensitivity and freedom from clogging while nebulizing solutions with high salt levels.

- Material: Borosilicate glass
- High physical reproducibility ~ 1%
- High TDS tolerance, typically up to 20%
- High tolerance to particulates, typically up to 75µm
- Low RSDs due to highly accurate construction
- Standard available uptake: 0.4mL/min and 2mL/min



SeaSpray U-Series nebulizer with UniFit sample connector and EzyLok side arm.

SeaSpray U-Series nebulizers with sample uptake 2mL/min are supplied with:
1 x NFT-075 UniFit connector (sample tube 0.75mm ID x 1.3mm OD x 700mm long).

SeaSpray U-series nebulizers with sample uptake 0.4mL/min are supplied with:
1 x NFT-050 UniFit connector (sample tube 0.5mm ID x 1.3mm OD x 700mm long).

MicroMist – The Low Uptake Nebulizer for all ICPs

The MicroMist micro-uptake glass concentric nebulizer offers high performance for limited sample volumes. It also reduces matrix effects when used with Glass Expansion's Cinnabar spray chamber.

- Material: Borosilicate glass
- High physical reproducibility ~ 1%
- TDS tolerance, typically up to 15%
- Low RSDs due to highly accurate construction
- Standard available uptake: 0.05, 0.1, 0.2, 0.4 & 0.6mL/min



MicroMist U-Series nebulizer with UniFit sample connector and EzyLok side arm.

MicroMist U-Series nebulizers with sample uptakes 0.2 – 0.6mL/min are fitted with:
1 x NFT-050 UniFit connector (1.3mm OD x 0.50mm ID x 700mm long sample tubing).

MicroMist U-Series nebulizers with sample uptakes 0.05 – 0.1mL/min are fitted with:
1 x NFT-025 UniFit connector (1.3mm OD x 0.25mm ID x 700mm long sample tubing).

Conikal – An Economical Option

The Conikal concentric nebulizer gives reproducible results for routine ICP analyses.

- Material: Borosilicate glass
- High physical reproducibility ~ 1%
- TDS tolerance, typically up to 5%
- High tolerance to particulates, typically up to 75µm
- Low RSDs due to highly accurate construction
- Standard available uptakes 1 & 2mL/min



Conikal U-Series nebulizer with UniFit sample connector and EzyLok side arm.

Conikal U-Series nebulizers with sample uptake 2mL/min are supplied with:
1 x NFT-075 UniFit connector (sample tube 0.75mm ID x 1.3mm OD x 700mm long).

Conikal U-Series nebulizers with sample uptake 1mL/min are supplied with:
1 x NFT-050 UniFit connector (sample tube 0.5mm ID x 1.3mm OD x 700mm long).

Slurry – For Slurries or Suspensions

The Slurry glass concentric nebulizer is ideal for specialised applications requiring the aspiration of slurries or suspensions. Its capillary bore is 50% larger than standard concentrics. This reduces the possibility of particle blockage, while giving excellent signal stability.

- Material: Borosilicate glass
- High physical reproducibility ~ 1%
- TDS tolerance, typically ~1%
- High tolerance to particulates, typically up to 150µm
- Low RSDs due to highly accurate construction
- Slurry nebulizers have a natural liquid uptake of 4mL/min but operate best between 1.5 and 2.5mL/min



Slurry U-Series nebulizer with UniFit sample connector and EzyLok side arm.

All Slurry U-Series nebulizers listed in this catalog are supplied with:
1 x NFT-075 UniFit connector (sample tube 0.75mm ID x 1.3mm OD x 700mm long).

NEBULIZERS FOR HF ANALYSES

DuraMist – For Routine High Precision HF Analyses

The DuraMist concentric nebulizer is the most economical nebulizer for high precision analyses involving samples digested in HF.*

- Material: HF Resistant PEEK
- High physical reproducibility ~ 2%
- High tolerance to particulates, up to 75µm depending on uptake
- High TDS tolerance, typically up to 20%
- Low RSDs due to concentric geometry
- Uses only standard ICP argon supply pressures
- Standard 6mm size fits standard cyclonic spray chambers. Adaptors are available for Scott type spray chambers
- Standard available uptakes: 0.4 and 1.0mL/min

DuraMists with sample uptakes 0.4 and 1.0mL/min are supplied with 1 x NFT-050, UniFit Connector with 1.3mm OD x 0.50mm ID x 700mm long sample tubing.



* The DuraMist is recommended for samples containing up to 5% HF. For samples with higher concentrations of HF, we recommend the OpalMist PFA nebulizer.

PolyCon – For Routine High Precision HF Analyses

The PolyCon concentric nebulizer is for ICP-OES analyses involving samples digested in HF.

- Material: HF Resistant Polyimide
- High physical reproducibility ~ 2%
- High tolerance to particulates, up to 75µm depending on uptake
- TDS tolerance, typically up to 5%
- Low RSDs due to concentric geometry
- Uses only standard ICP argon supply pressures
- Standard 6mm size fits standard cyclonic spray chambers. Adaptors are available for Scott type spray chambers
- Standard available uptakes: 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, & 2 mL/min

PolyCons with sample uptakes 0.05 – 0.1mL/min are supplied with 1.3mm OD x 0.25mm ID x 700mm long sample tubing.

PolyCons with sample uptakes 0.2 – 0.8mL/min are supplied with 1.3mm OD x 0.50mm ID x 700mm long sample tubing.

PolyCons with sample uptake 2 mL/min are supplied with 1.3mm OD x 0.75mm ID x 700mm long sample tubing.



OpalMist – Ideal For ICP-MS

The OpalMist PFA concentric nebulizer is the nebulizer of choice for ICP-MS analyses requiring exceptional purity or chemical resistance to HF, alkalis and organics. It also provides excellent results for trace analyses and freedom from clogging with high salt concentration.

- Material: PFA
- High physical reproducibility ~ 3%
- Strong and consistent self-aspiration
- High tolerance to particulates, up to 75µm depending on uptake
- High TDS tolerance, typically up to 30%
- Low RSDs due to concentric geometry
- Uses only standard ICP argon supply pressures
- Standard 6mm size fits standard cyclonic spray chambers. Adaptors are available for Scott type spray chambers
- Standard available uptakes: 0.05, 0.1, 0.2, 0.4, 0.6, 0.8 & 2mL/min

OpalMists with sample uptakes 0.05 – 0.1mL/min are supplied with 1.3mm OD x 0.25mm ID x 700mm long sample tubing.

OpalMists with sample uptakes 0.2 – 0.8mL/min are supplied with 1.3mm OD x 0.50mm ID x 700mm long sample tubing.

OpalMists with sample uptake 2mL/min are supplied with 1.3mm OD x 0.75mm ID x 700mm long sample tubing.



Ceramic VeeSpray – Handles High Particle and TDS Loads Best

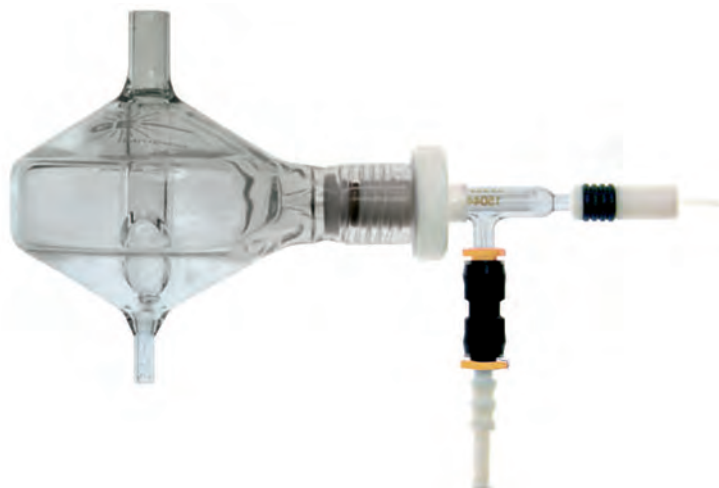
The Ceramic VeeSpray nebulizer is made from alumina ceramic, making it ideal for HF analyses. It provides reproducible performance when working with samples containing large particulates. It has the same 6mm diameter as the standard concentric nebulizer and the alumina material makes it the most robust and abrasion resistant ICP nebulizer.

- Material: 99.8% Alumina Ceramic
- High physical reproducibility ~ 1%
- TDS tolerance, typically up to 30%
- High tolerance to particulates, typically up to 300µm
- Must be pumped – does not self aspirate
- Design uptake range: 0.6 – 3mL/min. Operates best between 1.5 and 2.5mL/min

All Ceramic VeeSpray nebulizers listed in this catalog are supplied with 1.6mm OD x 0.75mm ID x 700mm long sample tubing.



SPRAY CHAMBERS – HIGHEST QUALITY, UNIFORMITY AND EFFECTIVENESS



Helix – The Modern Interface Between Nebulizer and Spray Chamber

Most ICP spectrometers rely on an O-Ring seal between the nebulizer and the spray chamber. This design may result in extended washout times due to dead volume around the seal. The Helix eliminates dead volume, resulting in faster washout times and higher sample throughput. Also, even the most chemically resistant O-Rings are prone to wear and tear and require regular replacement. They also tend to bond to a glass nebulizer, making the nebulizer difficult to remove. To eliminate all of these problems, Glass Expansion has developed Helix – the user friendly nebulizer/spray chamber interface.

- Faster washout times due to elimination of dead volume around the nebulizer seal
- No O-Rings to replace
- Totally inert – impervious to organic solvents and strong acids
- Smooth nebulizer insertion and removal
- Special release/lock mechanism seals the chamber
- Positive stop to ensure correct nebulizer position

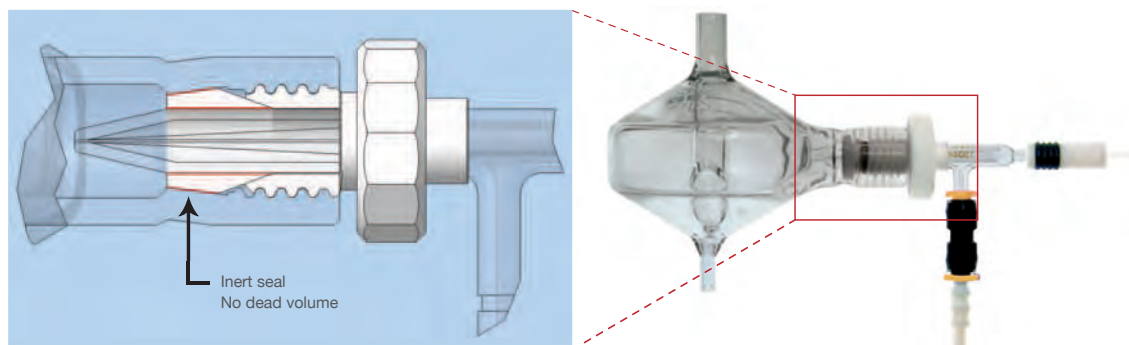
Helix fittings can only be used with Glass Expansion spray chambers incorporating the Helix side arm. They cannot be used with spray chambers designed with an O-Ring seal.

Part numbers for Helix glass spray chambers can be identified by the letters HE at the end, as in 20-809-0224HE. All of the glass spray chambers in this catalog are supplied with Helix. All of the PTFE and PFA spray chambers in this catalog are supplied with a Helix. They do not have the HE suffix since they are not available without Helix.

The Secrets of the Glass Expansion Spray Chamber

Only Glass Expansion spray chambers provide all of these benefits:

- Cyclonic design for best sensitivity and precision
- Helix nebulizer interface
- Minimal dead volume for reduced carryover, faster washout and higher sample throughput
- Precise ridge on wall for efficient drainage
- Convenient UniFit drain connector



Tracey Cyclonic – An Industry Standard

The Tracey cyclonic spray chamber is Glass Expansion's standard glass cyclonic spray chamber. It gives the best sensitivity and lowest memory effects for standard ICP analyses.

- Material: Borosilicate glass
- Volume: 50mL
- High sensitivity and reduced matrix effects
- Physical reproducibility ~1%
- Faster washout than older coaxial chamber designs
- Low RSDs due to highly accurate construction
- Application uptake range 0.2 to 3.0mL/min

HF resistant Tracey TFE spray chamber

Made from HF resistant PTFE, the Tracey TFE spray chamber is ideal for use with the PolyCon, OpalMist, DuraMist or Ceramic VeeSpray nebulizers. Volume 50mL.

Tracey PFA44 spray chamber

The Tracey PFA44 spray chamber is made from high purity PFA and is ideal for ultra-trace ICP-MS analyses where ultra-pure sample introduction components are required. Volume 44mL.



Tracey spray chamber
P/N 20-809-0224HE shown.



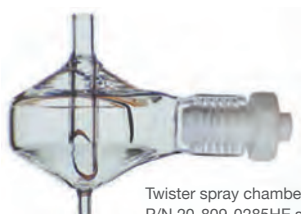
Tracey TFE spray chamber
P/N 20-809-2506 shown.

The interior of both the Tracey TFE and Tracey PFA44 has the proprietary Stediflow surface treatment which improves the wettability of the surface and ensures efficient drainage. Without the Stediflow treatment, droplets tend to form on the surface and degrade both sensitivity and precision.

Twister Cyclonic – Reduces Solvent Load

The Twister cyclonic spray chamber features a central transfer tube which acts as a secondary particle separator helping separate larger aerosol particles from the sample. This reduces solvent load in the plasma without compromising detection limits.

- Material: Borosilicate glass
- Volume: 50mL
- Physical reproducibility ~1%
- Low RSDs due to highly accurate construction
- Application uptake range 0.2 to 3.0 mL/min
- Produces smaller mean droplet size



Twister spray chamber
P/N 20-809-0285HE shown.

Cinnabar Cyclonic – The Low-Volume Spray Chamber for All ICPs

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

- Material: Borosilicate glass
- Volume: 20mL
- Physical reproducibility ~1%
- Matrix effects 5 times lower than with coaxial chambers
- Low RSDs due to highly accurate construction
- Application uptake range ~20 to 400 μ L/min
- Ideal for use with MicroMist nebulizers



Cinnabar spray chamber
P/N 20-809-0164HE shown.

Twinnabar Cyclonic – Low Volume, Low Solvent Load

The Twinnabar spray chamber is a low volume spray chamber with a central transfer tube (or baffle), combining the benefits of the Twister and the Cinnabar. It combines excellent precision with a very fast washout.

- Material: Borosilicate glass
- Volume: 20mL
- Physical reproducibility ~1%
- Low RSDs due to highly accurate construction
- Application uptake range 20 to 400 μ L/min



Twinnabar spray chamber
P/N 20-809-0261HE shown.

UniFit Drain Connector

For your convenience and safety, each Glass Expansion spray chamber with standard 4mm drain tube is supplied with a UniFit connector P/N UFT-075. The UniFit connector efficiently connects a 0.75mm ID x 1.3mm OD drain tube to the spray chamber.



NEBULIZER ADAPTORS FOR SPRAY CHAMBERS

Replacement Parts for Spray Chambers with Helix

All glass spray chambers with HE at the end of the part number and all Tracey TFE and Tracey PFA44 HF-resistant spray chambers are supplied with Helix. Replacement Helix Seals P/N 70-100-0237 (pack of 4) and Helix Locking Screw P/N 70-100-0152 are available.



Twister spray chamber with Helix
P/N 20-809-0285HE shown.



Tracey TFE spray chamber with
Helix P/N 20-809-2506 shown.



Helix Seal
P/N 70-100-0237.

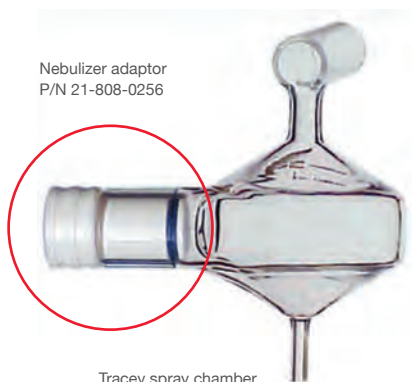


Helix Locking Screw
P/N 70-100-0152.

Replacement Nebulizer Adaptors for Glass Spray Chambers with O-Ring Seal

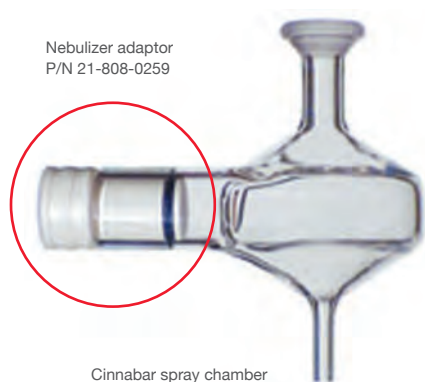
Glass Tracey and Twister spray chambers with O-Ring seal come standard with nebulizer adaptor P/N 21-808-0256.

Glass Cinnabar and Twinnabar spray chambers with O-Ring seal come standard with nebulizer adaptor P/N 21-808-0259.



Nebulizer adaptor
P/N 21-808-0256

Tracey spray chamber
P/N 20-809-0224 shown.



Nebulizer adaptor
P/N 21-808-0259

Cinnabar spray chamber
P/N 20-809-0164 shown.

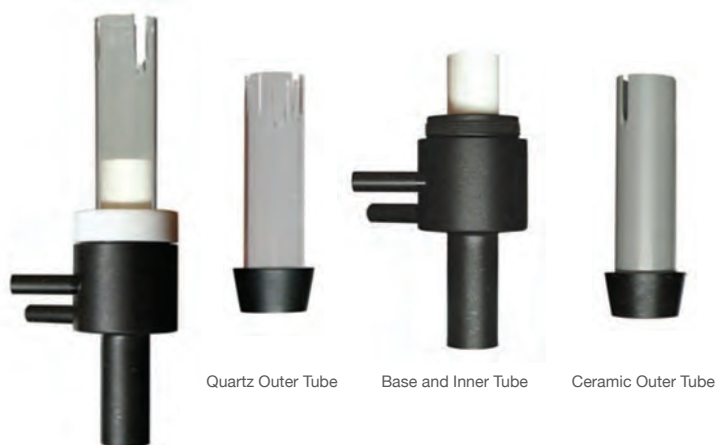
D-Torch* Demountable Torch

The D-Torch is a revolutionary new demountable torch design. It provides the benefits of a fully demountable torch at a significantly lower cost. Interchangeable outer tubes made of quartz or ceramic are available. The quartz tube is ideal for most aqueous applications and, since the outer tube is usually the first to wear, you can make a significant saving by replacing just the outer tube rather than the whole torch. The ceramic outer tube is of particular benefit for the analysis of samples with high salt content or wear metals in engine oils, where quartz outer tubes often suffer from short lifetime. The ceramic outer tube has a much longer lifetime, greatly reducing interruptions and downtime due to torch failure. The D-Torch uses the same mounting system as the standard fixed torch so there is no additional cost or complexity to install it.

- Demountable outer tube – why replace the entire torch when just the outer tube wears?
- Interchangeable quartz and ceramic outer tubes.
- Much lower cost than other demountable torches.
- Interchangeable injectors for aqueous, organics, high dissolved solids or HF applications.

Please contact enquiries@geicp.com for information on the availability of the D-Torch for your ICP.

* The D-Torch is covered by US Patent 7,847,210 B2

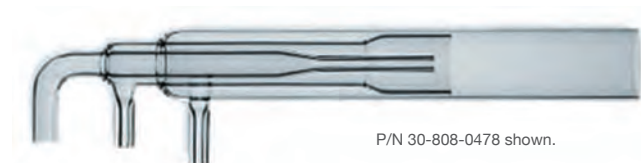


Semi Demountable Torches

- Highly accurate construction
- Lower running costs than 1-piece torches

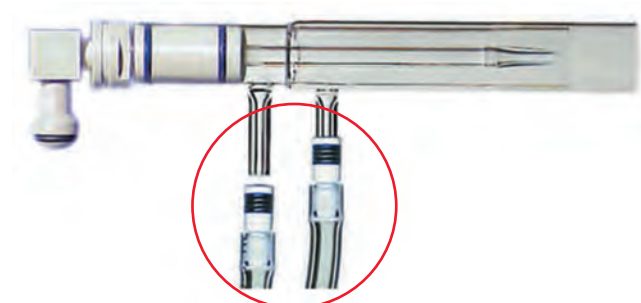
Usually comprises a quartz torch body, a torch adaptor, an injector and GazFit connectors. All these parts are replaceable, making the semi demountable torch more cost effective than the fixed quartz torch.

Essentially the design of the torch for standard analyses and HF analyses is the same, with the exception of the injector material. The torch for aqueous and organics analyses comes with a quartz injector, while the torch for HF analyses comes with an alumina injector. Hence simply interchange between quartz and alumina injectors for appropriate analyses. Several internal diameters for both quartz and alumina injectors are available.



Fixed Quartz Torches (One Piece)

- Precise quartz construction
- Wide range held in stock
- High dimensional accuracy
- Supported by Glass Expansion expertise



GazFit Connectors

Now there's a better way to connect argon tubes. GazFit connectors provide reliable attachment of argon tubes without adhesion. Available to suit torches with 4mm, 5mm, 6mm and 8mm OD side arms.

Note: GazFit connectors are only suitable for torches with tolerances of no more than ± 0.15 mm on the diameter of the side arms. All Glass Expansion torches meet this specification.

RF COILS – MORE EFFICIENT ENERGY TRANSFER

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.



P/N 70-900-1000G shown.

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.
- Correct alignment of the RF Coil with respect to the torch body reduces devitrification of the outer tube.
- Reusable alignment tools ensure correct installation every time. Our CD with Do-it-yourself instructions saves time.

The Role of the RF Coil

The RF Coil is a critical component in the electrical system used to generate an argon plasma. There are three factors affecting the role of the RF Coil in transferring energy:

- Concentricity and alignment – these are very important in producing a correctly shaped plasma. The Glass Expansion RF Coil installation tools make this possible every time.
- Correct dimensions – being part of the RF system, the coil dimensions are important in the tuning of the circuit. Slight changes in dimensions can produce small changes in resistance or inductance and are normally compensated for in the tuning circuitry of the system.
- Base metal/plating – the most efficient conductor of RF energy is pure silver followed by annealed copper. There is very little difference in the conductivity of these materials, however there is a great deal of difference in cost. Copper is used as the base material of all commercially available coils but different manufacturers use different plating materials. Silver has the best conductance and gold the best corrosion resistance.

The main problem with an RF Coil is corrosion, whether from heat or chemical oxidation. Corrosion reduces the conductivity of the coil, reducing the efficiency of energy transfer to the plasma and increasing the stress applied to other components in the RF generating system.



Copper, Silver and Gold RF Coils.

If heat is the biggest problem then the best way to deal with this is to use a coil that is plated in a highly reflective material such as silver. Silver plating however does produce a tarnish appearance after a period of use. To obtain the best life out of a coil in this situation, the coil should be cleaned frequently with a tarnish remover. This will eventually lead to the removal of the silver plating but if the tarnish is not removed excessive heat can build up, leading to the plating flaking away from the copper tubing.

Chemical corrosion is best dealt with using a gold-plated coil. The plating process is critical in the performance of the coil. Gold plating can produce a porous coating, which allows a chemical attack on the copper tubing, thereby rendering the plating useless. The plating process used in the production of the Glass Expansion gold plated coils is designed to remove the porous effect yet still maintain the high purity plating. For even better corrosion resistance, Glass Expansion can supply Teflon-coated coils for some models.

Periodic cleaning of your coil will extend the lifetime and produce a more consistent plasma. It will also reduce stress on the RF generator.

Glass Expansion Installation Kits for RF Coils

Save the cost of a service call

- 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.
- CD with Do-It-Yourself instructions.



The Assist syringe-driven sample introduction system

Assists you with faster throughput

Assists you with improved accuracy

Assists you with better precision



The Assist is an automated sample introduction system for ICP-OES or ICP-MS. It consists of purpose-built programmable syringe drives with an integrated valve system. The Assist delivers the highest level of accuracy, stability and sample throughput by controlling the delivery of both sample and internal standard or diluent, eliminating the inaccuracies and pulsations caused by peristaltic pumps. The Assist provides you with:

Twice the sample throughput. The rinse time, stabilization time and the time for the sample to move from the autosampler to the nebulizer are all reduced. This reduces the time for a typical analysis by at least half.

Better precision. The sample is delivered by a precisely controlled syringe, eliminating the signal pulsation problem which occurs with the usual peristaltic pump delivery system.

Better accuracy. The internal standard is delivered by a second precision syringe drive, ensuring that the ratio of internal standard to sample is accurately maintained. The fluctuations in this ratio that occur when the internal standard is delivered by peristaltic pump are eliminated, greatly improving the analytical accuracy.

Automatic dilution. The second syringe drive can also be used to deliver a diluent, enabling accurate dilution by a factor of up to 20:1 to be carried out automatically.

Reduced carryover. The sample does not contact any peristaltic pump tubing and the sample path is totally inert. This allows for a faster rinse and reduces carryover.

Low sample and internal standard usage. The volumes required are substantially reduced, resulting in lower cost of reagents and less wastage.

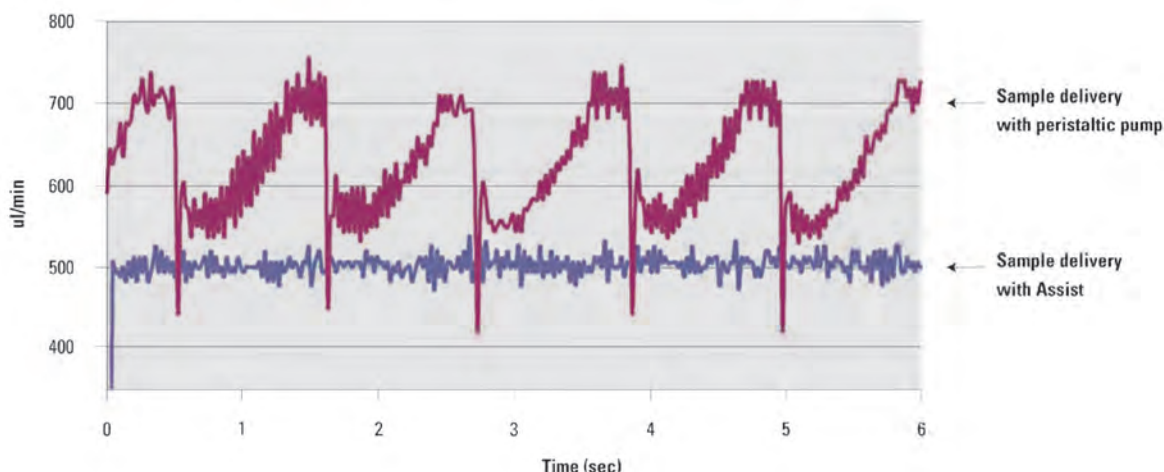
Flexibility in the selection of the ratio of sample to internal standard. The syringe system allows you to use sample to internal standard ratios of up to 20:1 and still get accurate correction.

Longer life of consumables. The lower sample volume and reduced analysis time mean that you save on consumables such as torches and ICP-MS cones as well as argon.

Compatibility. The Assist software is configured to operate with almost all models of ICP-MS, ICP-OES and autosampler.

Assist Packages

Assist Premium Package (2 syringe units)	KT-1076
Assist Basic Package (1 syringe unit)	KT-1100
Assist Oils Package (3 syringe units)	KT-1095



Configured to suit your application

The Assist is a modular system of syringe drives and switching valves and it can be configured to suit specific applications.

Premium Package. This is the most common system and is the system described above. It incorporates two syringe drives and a Niagara switching valve. It provides for the inline delivery and mixing of the sample and internal standard or diluent. P/N KT-1076

Basic Package. This system is used when inline delivery of internal standard or diluent is not required. It incorporates a single syringe drive and a Niagara switching valve. It provides all of the benefits listed above with the exception of those relating to delivery of internal standard or diluent. P/N KT-1100

Oils Package. This system is configured specifically for the analysis of wear metals in raw (undiluted) lubricating oils. It incorporates three syringe drives and a Niagara switching valve. It takes a sample of the oil, mixes it with a diluent such as kerosene and precisely delivers the diluted oil to the ICP spectrometer. It eliminates the need for manual dilutions and increases the speed of analysis. P/N KT-1095

ISOMIST



IsoMist Programmable Temperature Spray Chamber

The Ultimate Spray Chamber for ICP-MS and ICP-OES

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

Peltier Effect Temperature Control

The temperature is electronically controlled using a powerful inbuilt Peltier device. You can select any temperature between -10°C and +60°C in 1°C increments to provide the optimum conditions for any application. The rapid response of the Peltier device allows a spray chamber temperature of -5°C to be reached within 15 minutes.

Versatile Computer Interface

For maximum convenience, the IsoMist can be controlled from your PC via a Bluetooth® wireless interface or a standard USB network connection. The spray chamber temperature can be monitored through a temperature versus time plot on your PC screen. And, for regulatory compliance, the temperature versus time data file can be saved with your results. If these features are not required, once the temperature has been programmed, the IsoMist can be run in stand-alone mode without a PC connection.

Reduced Oxide Interferences in ICP-MS

By introducing the sample at low temperature, the IsoMist reduces oxide levels, resulting in fewer interferences and improved detection limits.

Perfect for Volatile Organics

The temperature can be set as low as -10°C to reduce the solvent load on the plasma and allow the straightforward ICP-MS or ICP-OES analysis of even the most volatile organic solvents.

Constant Temperature Improves Stability

By holding the spray chamber at a constant temperature, the IsoMist significantly improves long-term signal stability, increasing the likelihood of calibration checks passing.

Heating Mode Enhances Sensitivity

The sensitivity for many applications is enhanced by running the spray chamber at an elevated temperature, a feature that is particularly important for samples with limited volume.

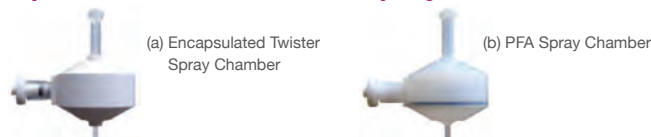
Proven Cyclonic Spray Chamber

The IsoMist incorporates the proven Twister cyclonic spray chamber, combining excellent sensitivity and precision with exceptionally fast washout. The Helix nebulizer interface has zero dead volume and provides for convenient nebulizer insertion and removal. This system is compatible with the full range of Glass Expansion nebulizers.

Completely Self-Contained Ergonomic Package

The compact design includes a rugged, low maintenance, chemically-resistant polypropylene housing. It provides a much more convenient alternative to a jacketed spray chamber with an external chiller because it does not require an external source of coolant. It is compatible with almost all ICP-MS and ICP-OES models.

Optional PFA and Quartz Spray Chambers



The IsoMist can be used with PFA or quartz spray chambers in addition to the standard glass Twister spray chamber. Please contact enquiries@geicp.com for information on a suitable PFA or quartz spray chamber for your IsoMist.

The IsoMist can also be ordered with a PFA or quartz spray chamber installed in place of the standard glass spray chamber. Simple add a "P" for PFA or a "Q" for quartz to the part number for the standard kit, eg. KT-1010P for PFA or KT-1010Q for quartz.

Ordering Information

We have established an IsoMist Kit for common ICP-OES and ICP-MS models. Each kit contains the IsoMist module, encapsulated Twister spray chamber, torch interface and mounting bracket (if required). Please select the kit to match your ICP from the following:

IsoMist Programmable Temperature Spray Chamber Kits

Please email us at enquiries@geicp.com if your model is not listed.

IsoMist	
IsoMist Kit for Agilent 7500	KT-1010
IsoMist Kit for Agilent 7700	KT-1103
IsoMist Kit for Agilent 4500	KT-1053
IsoMist Kit for Agilent (Varian) 700-ES or Vista Axial	KT-1014
IsoMist Kit for Agilent (Varian) 700-ES or Vista Radial	KT-1022
IsoMist Kit for Agilent (Varian) 700-ES or Vista Axial All Glass System	KT-1054
IsoMist Kit for Agilent (Varian) 700-ES or Vista Radial All Glass System	KT-1055
IsoMist Kit for Bruker (Varian) 800-MS	KT-1017
IsoMist Kit for GBC OptiMass	KT-1042
IsoMist Kit for Horiba Jobin Yvon	KT-1064
IsoMist Kit for PerkinElmer Optima 4300/5300/7300V	KT-1011
IsoMist Kit for PerkinElmer Optima 2000/4000/5000/7000DV	KT-1012
IsoMist Kit for PerkinElmer Optima 3000 Axial/DV	KT-1063
IsoMist Kit for PerkinElmer NexION 300	KT-1096
IsoMist Kit for PerkinElmer Elan	KT-1013
IsoMist Kit for Shimadzu	KT-1067
IsoMist Kit for Thermo iCAP 6000 Duo	KT-1015
IsoMist Kit for Thermo iCAP 6000 Radial	KT-1021
IsoMist Kit for Thermo Iris Axial/Duo	KT-1018
IsoMist Kit for Thermo Iris Radial	KT-1058
IsoMist Kit for Thermo Finnigan Element	KT-1020
IsoMist Kit for Thermo (VG) PlasmaQuad	KT-1023
IsoMist Kit for Thermo X Series	KT-1025
IsoMist Basic Kit ROL	KT-1024
IsoMist Basic Kit LOL	KT-1027
IsoMist Basic Kit EROL (for Spectro)	KT-1029

TruFlo Sample Monitor

Eliminates guesswork

Reduces sample repeats

Sounds out-of-range alarm

Is suitable for all ICP-OES and ICP-MS models



TruFlo Sample Monitor

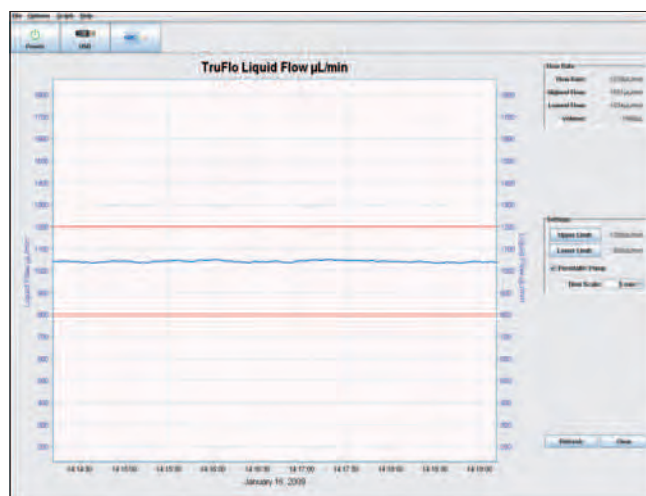
TruFlo Sample Monitor 0-4mL/min	70-803-0643
TruFlo Sample Monitor for HF 0-4mL/min	70-803-0890

Do you ever need to repeat the analysis of a sample due to:

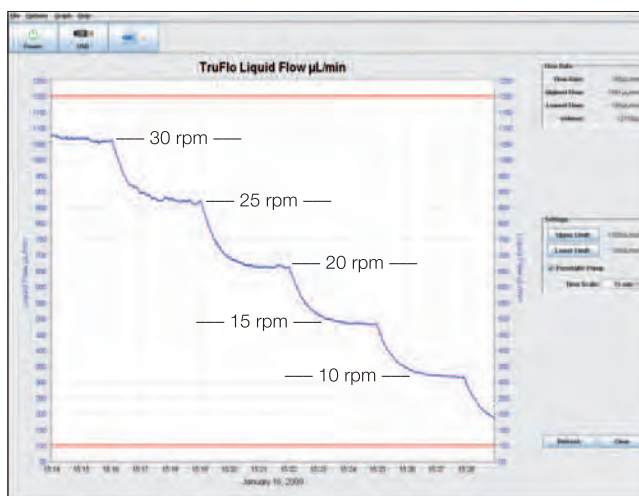
- A blocked nebulizer?
- Worn peristaltic pump tubing?
- Incorrect pressure of the pump tubing clamp?

With the digital display of the TruFlo Sample Monitor, you always know the actual rate of sample uptake to your nebulizer. This enhances the day-to-day reproducibility of your results and reduces the need to repeat measurements due to a blocked nebulizer, worn pump tubing or incorrect clamping of the pump tube. And the borosilicate glass sample path ensures that there is no memory effect or sample contamination. The TruFlo can even sound an alarm if the sample uptake is outside your specified limits.

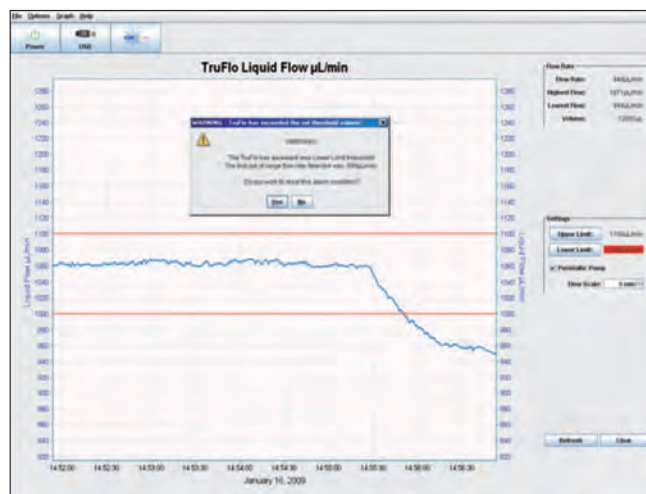
The actual sample flow is shown on the TruFlo's inbuilt digital display and a graph of the flow versus time can also be displayed on your computer.



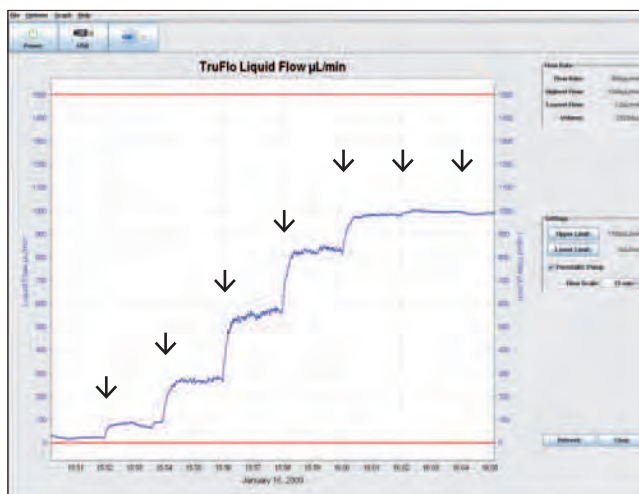
You can set the upper and lower limits of your acceptable sample flow range.



You always know the actual sample flow and you do not need to worry about converting pump revolutions to sample flow.



You receive a warning on the screen, as well as an audible alarm, if the sample flow moves outside the acceptable range.



The realtime flow display enables you to optimise the pressure on the peristaltic pump tubing. The clamp was tightened by ¼ turn at each arrow.

NIAGARA II

Niagara II Rapid Rinse Accessory

Most ICP systems incorporate an autosampler. With these systems there is a significant delay between the time when the autosampler probe enters the sample and the time when the sample reaches the nebulizer and further time is lost as the probe moves between sample and rinse. If these delays could be eliminated, the analysis time per sample could be reduced significantly and the sample throughput increased.

This is what the Niagara II Rapid Rinse Accessory achieves.

The second generation Niagara II provides all of the benefits of the original Niagara in a more compact easier-to-use design. It begins the rinsing of the nebulizer and spray chamber the instant the sample measurement is completed and continues to rinse until the next sample is ready. Thus the rinse is carried out in time that is usually wasted waiting for the sample solution to flow from the autosampler to the nebulizer. The time that is saved is around 30% for a typical analysis. This significantly reduces the cost per sample for busy laboratories such as those analyzing environmental, geochemical and oil samples.

The Niagara II is compatible with most ICP-OES and ICP-MS spectrometers and autosamplers.

Niagara II Rapid Rinse Accessory

KT-1073

If you do not have a spare channel for the rinse solution on your peristaltic pump, we can supply a three-channel pump as follows:

Peristaltic Pump for Niagara, 3 Channel

70-808-1394



Niagara Plus

Halve your operating costs

Reduce your environmental footprint

Double your sample throughput

The Niagara Plus uses Flow Injection technology to reduce analysis time, environmental impact and operating cost:

- Lower argon consumption
- Reduced cost of consumables such as torches, cones, RF coils, pump tubing, acids, standards and chemicals
- Lower power consumption
- Reduced stress on RF system and lower maintenance cost
- Less down-time for cleaning carbon from torch when analyzing organics
- Less chemical waste to dispose of

In addition to the cost and environmental benefits, the Niagara Plus delivers a major improvement in analytical performance:

- Twice the sample throughput for a typical analysis
- Half the normal sample volume
- Automatic addition of the internal standard simplifies sample preparation
- Inert sample path reduces carryover – the sample does not contact any peristaltic pump tubing
- Constant flow of solution to the plasma maintains plasma stability and reduces stabilization times
- Compact design easily interfaces to almost all models of ICP-MS and ICP-OES



Niagara II module and positive displacement pump

Niagara Plus

Niagara Plus

KT-1074

The Niagara Plus requires a 1.0mm ID autosampler probe for optimum performance. Select one of the following probes:

Autosampler Probes

Teflon Encapsulated Carbon Fibre Probe 1.0mm ID (suitable for Cetac ASX-520) 70-803-0793

Teflon Encapsulated Carbon Fibre Probe 1.0mm ID (suitable for PerkinElmer S-10 or AS-93+) 70-803-0816

Teflon Encapsulated Carbon Fibre Probe 1.0mm ID (suitable for Agilent (Varian) SPS-3 or AIM-3600) 70-803-0853

If your autosampler is not listed here, please contact Glass Expansion at enquiries@geicp.com.

The Niagara Plus package includes:

- Niagara II module
- Positive displacement pump
- Adjustable mounting bracket
- USB to quad serial converter
- All required cables and tubing
- USB memory stick with operating software and instructions

Samples typically analyzed in an hour.



... without Niagara Plus.



... and with Niagara Plus.

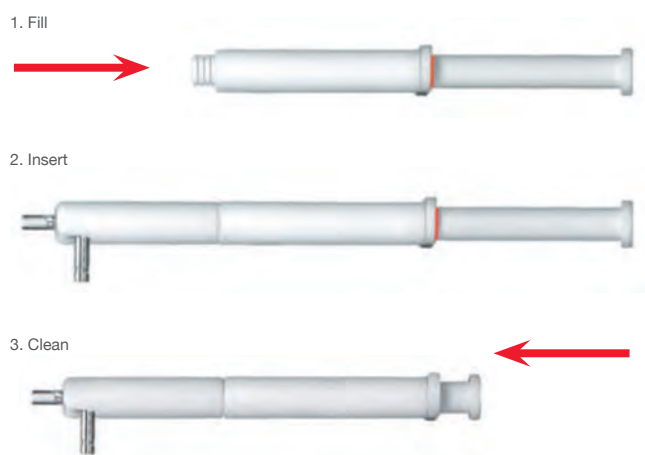
OTHER ACCESSORIES

The Eluo Nebulizer Cleaning Tool

Particle build-up in a nebulizer capillary and tip causes sample flow to be constricted, thereby reducing nebulizer efficiency and performance. Previously there was no simple way to effectively clean and unblock nebulizers. 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, waiting overnight or shattered nebulizers in ultrasonic baths. Cleaning your nebulizer is as easy as 1, 2, 3.

1. Fill your Eluo with Methanol.
2. Insert your nebulizer, tip first, into the Eluo
3. Clean your nebulizer by pressing the Plunger down.



The Eluo is available for Glass Expansion concentric glass and HF-resistant nebulizers.

Eluo Nebulizer Cleaning Tool

Eluo Nebulizer Cleaning Tool (glass concentric nebulizers)	70-ELUO
Eluo Nebulizer Cleaning Tool (new OpalMist, PolyCon or DuraMist)	70-ELUO-OPD
Eluo Nebulizer Cleaning Tool (old OpalMist or PolyCon)	70-ELUO-OP
Eluo Plunger	703-0070
Eluo Barrel	703-0058
Eluo Nebulizer Holder (glass concentric nebulizers)	703-0069
Eluo OPD Nebulizer Holder (new OpalMist, PolyCon or DuraMist)	70-803-0932
Eluo OP Nebulizer Holder (old OpalMist or PolyCon)	703-0074
Eluo O-ring Kit (2 sets)	70-0806

Capricorn Argon Humidifier

The Argon Humidifier is commonly used in ICP analyses involving samples with high dissolved solids concentration. Helping to prevent salt build-up inside the sample introduction system, the Argon Humidifier allows uninterrupted and maintenance free operation. The Glass Expansion Capricorn combines ease of operation, high performance and safety.

- The rugged and durable casing enhances safety.
- The built-in pressure indicator serves as a diagnostic so you always know when the chamber is pressurized.
- An optional easy-to-use bypass toggle allows you to take the Capricorn off-line without disconnecting argon lines.
- Maximum and minimum fill marks ensure that you are always operating under optimum conditions.
- A rugged bubbling frit ensures maximum saturation of the argon.



Capricorn Argon Humidifier without bypass

Capricorn Argon Humidifier with bypass

Capricorn Argon Humidifier

Capricorn Argon Humidifier without bypass	70-808-1000
Capricorn Argon Humidifier with bypass	70-808-1226
Capricorn Argon Humidifier with bypass for Spectro	70-803-0518
Capricorn Argon Humidifier with bypass for Agilent (Varian)	70-803-0608
Capricorn Argon Humidifier with bypass for PerkinElmer	70-803-0570
Capricorn Argon Humidifier with bypass for Thermo	70-803-0634

Trident In-Line Reagent Additions Kits

Internal standards are often used to improve stability. The internal standardization process involves the addition of a known concentration of a particular element to every sample. This 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, thus saving considerable sample preparation time.

The sample and internal standard are pumped simultaneously using parallel channels of the peristaltic pump and mixed in a glass or polypropylene mixing t-piece. The ratio of internal standard flow to sample flow is set by the ratio of the area of the two peristaltic pump tubes. The pump tubes are usually chosen so that the internal standard flow is around 10% – 20% of the sample flow.

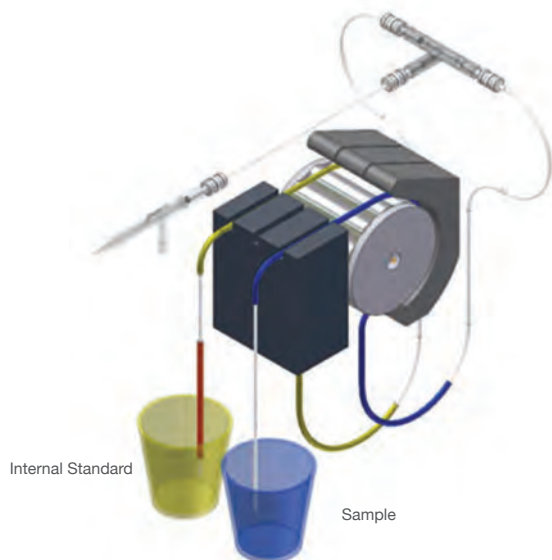
Check the Trident Dilution Factor Calculator on our website to find out the sample and internal standard dilution factors for selected combinations of pump tubing.

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



Trident Internal Standard Kit
60-808-1185

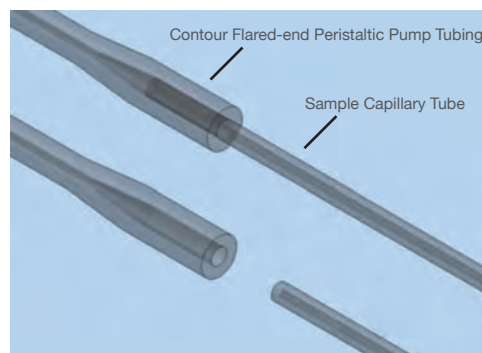
Trident Internal Standard Kit (HF)
60-808-1150



Contour Flared-end Peristaltic Pump Tubing

It can be quite difficult to insert the sample and internal standard capillary tubes into the peristaltic pump tubes. This is particularly so for the internal standard pump tube due to its small ID (usually 0.2 to 0.4mm). To facilitate this connection, Glass Expansion supplies Contour flared-end pump tubing. The flared end of this pump tubing allows larger capillary tubing to be inserted. Gripping paper is supplied with the Internal Standard Kit to enable both tubes to be gripped firmly while they are being joined.

Ordering details for Contour Flared-end Peristaltic Pump Tubing can be found on page 94.



Safety Gloves



Safety Gloves

Safety Gloves, Small	SAFEGLOVE-sml
Safety Gloves, Medium	SAFEGLOVE-med
Safety Gloves, Large	SAFEGLOVE-lge

Safety Glasses



Safety Glasses

SAFEGGLASS

For your protection, always use safety gloves and glasses when handling glass.

O-Ring Tool

With older-style spray chambers which incorporate O-Rings, it is common for the O-Rings to bond to the glass making them difficult to remove. The O-Ring Tool makes removal of O-Rings much easier.



O-Ring Removal Tool

50-100-1636

EzyGlide Cloth








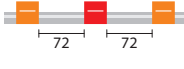

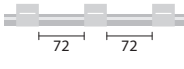

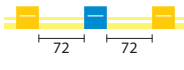


The EzyGlide Cloth is used to lubricate fully demountable torch tubes. Promotes easy insertion / removal of tubes.



EzyGlide Lubricated Cloth 70-EZG-CLOTH

APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Clinical and forensic materials, Drinking, ground and surface water, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-1-USS04X SeaSpray U-Series Nebulizer 0.4mL/min		AT1002-Ni Nickel Skimmer Cone for 4500/7500a	
KT-1010 IsoMist Kit for Agilent 7500		AT1002C-Ni Nickel Skimmer Cone - 7500c	
30-807-0542 Quartz Torch with 2.5mm Injector for Agilent 7500, 2 Projections, HMI Compatible		AT1002CE-Ni Nickel Skimmer Cone - 7500ce	
31-808-2577 Quartz Torch Bonnet for Agilent 7500/7700		0.19-OR3B-F Contour Flared End PVC Pump Tube 3tag 0.19mm ID Orange/Red (PKT 6)	
70-900-7500S RF Coil Silver for Agilent 7500		1.02-WHT3B-F Contour Flared End PVC Pump Tube 3tag 1.02mm ID White/White (PKT 6)	
70-900-7500T RF Coil Installation Tool for Agilent 7500		1.52-PH-3 PharMed Pump Tube 3tag 1.52mm ID Yellow/Blue (PKT 12)	
AT1001-Ni Nickel Sampler Cone for Agilent 4500/7500		60-808-1185 Trident Internal Standard Kit	

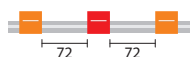
Brines and salts

ARG-1-USS04X SeaSpray U-Series Nebulizer 0.4mL/min		70-900-7500T RF Coil Installation Tool for Agilent 7500	
KT-1010 IsoMist Kit for Agilent 7500		AT1006-Pt Platinum Sampler Cone for Agilent 4500/7500 (10mm insert)	
30-807-0542 Quartz Torch with 2.5mm Injector for Agilent 7500, 2 Projections, HMI Compatible		AT1008-Pt Platinum Skimmer Cone for Agilent 4500/7500	
31-808-2577 Quartz Torch Bonnet for Agilent 7500/7700		AT1008C-Pt Platinum Skimmer Cone - 7500c	
70-900-7500G RF Coil Gold for Agilent 7500		AT1008CS-Pt Platinum Skimmer Cone, Copper Base - 7500cs, 7500ce	

Brines and salts (continued)

0.19-OR3B-F

Contour Flared End PVC Pump Tube 3tag
0.19mm ID Orange/Red (PKT 6)



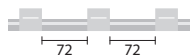
60-808-1185

Trident Internal Standard Kit



1.02-WHT3B-F

Contour Flared End PVC Pump Tube 3tag
1.02mm ID White/White (PKT 6)



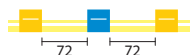
70-808-1226

Capricorn Argon Humidifier with bypass



1.52-PH-3

PharMed Pump Tube 3tag 1.52mm ID
Yellow/Blue (PKT 12)



Geological with HF, Soil and sediment with HF

ARG-1-PFA04X

OpalMist Nebulizer 0.4mL/min



AT1008-Pt

Platinum Skimmer Cone for Agilent
4500/7500



KT-1010P

IsoMist Kit with PFA Spray Chamber
for Agilent 7500



AT1008C-Pt

Platinum Skimmer Cone - 7500c



30-808-3069

Semi Demountable Torch with Alumina
Injector for Agilent 4500/7500



AT1008CS-Pt

Platinum Skimmer Cone, Copper Base
- 7500cs, 7500ce



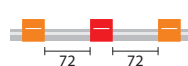
31-808-2577

Quartz Torch Bonnet for Agilent 7500/7700



0.19-OR3B-F

Contour Flared End PVC Pump Tube 3tag
0.19mm ID Orange/Red (PKT 6)



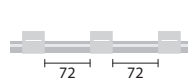
70-900-7500G

RF Coil Gold for Agilent 7500



1.02-WHT3B-F

Contour Flared End PVC Pump Tube 3tag
1.02mm ID White/White (PKT 6)



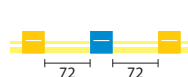
70-900-7500T

RF Coil Installation Tool for Agilent 7500



1.52-PH-3

PharMed Pump Tube 3tag 1.52mm ID
Yellow/Blue (PKT 12)



AT1006-Pt

Platinum Sampler Cone for
Agilent 4500/7500 (10mm insert)



60-808-1150

Trident Internal Standard Kit for HF solutions



Isotopic Analysis of Minerals

ARG-1-USS04X

SeaSpray U-Series Nebulizer 0.4mL/min



30-807-0542

Quartz Torch with 2.5mm Injector
for Agilent 7500, 2 Projections,
HMI Compatible



KT-1010

IsoMist Kit for Agilent 7500



31-808-2577

Quartz Torch Bonnet for Agilent 7500/7700



70-900-7500G

RF Coil Gold for Agilent 7500



APPLICATION PACKAGES

Isotopic Analysis of Minerals (continued)

70-900-7500T

RF Coil Installation Tool for Agilent 7500



AT1008CS-Pt

Platinum Skimmer Cone, Copper Base
- 7500cs, 7500ce



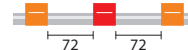
AT1006-Pt

Platinum Sampler Cone for Agilent
4500/7500 (10mm insert)



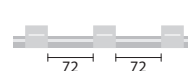
0.19-OR3B-F

Contour Flared End PVC Pump Tube 3tag
0.19mm ID Orange/Red (PKT 6)



1.02-WHT3B-F

Contour Flared End PVC Pump Tube 3tag
1.02mm ID White/White (PKT 6)



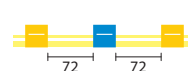
AT1008-Pt

Platinum Skimmer Cone for Agilent
4500/7500



1.52-PH-3

PharMed Pump Tube 3tag 1.52mm ID
Yellow/Blue (PKT 12)



AT1008C-Pt

Platinum Skimmer Cone - 7500c



60-808-1185

Trident Internal Standard Kit



Petrochemicals

ARG-1-USS04X

SeaSpray U-Series Nebulizer 0.4mL/min



AT1001-Ni

Nickel Sampler Cone for Agilent 4500/7500



KT-1010

IsoMist Kit for Agilent 7500



AT1002-Ni

Nickel Skimmer Cone for 4500/7500a



30-807-0516

Quartz Torch with 1.0mm Injector for
Agilent7500



AT1002C-Ni

Nickel Skimmer Cone - 7500c



31-808-2577

Quartz Torch Bonnet for Agilent 7500/7700



AT1002CE-Ni

Nickel Skimmer Cone - 7500ce



70-900-7500S

RF Coil Silver for Agilent 7500



60-808-1185

Trident Internal Standard Kit



70-900-7500T

RF Coil Installation Tool for Agilent 7500



Semiconductors

ARG-1-PFA04X

OpalMist Nebulizer 0.4mL/min



30-808-3068

Semi Demountable Torch for Agilent
4500/7500



KT-1010P

IsoMist Kit with PFA Spray Chamber
for Agilent 7500



31-808-2577

Quartz Torch Bonnet for Agilent 7500/7700



31-808-2580

Sapphire Injector 2.4mm



Semiconductors (continued)

70-900-7500S

RF Coil Silver for Agilent 7500



70-900-7500T

RF Coil Installation Tool for Agilent 7500



AT1006-Pt

Platinum Sampler Cone for Agilent 4500/7500 (10mm insert)



AT1008-Pt

Platinum Skimmer Cone for Agilent 4500/7500



AT1008C-Pt

Platinum Skimmer Cone - 7500c



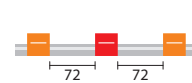
AT1008CS-Pt

Platinum Skimmer Cone, Copper Base - 7500cs, 7500ce



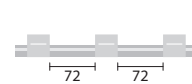
0.19-OR3B-F

Contour Flared End PVC Pump Tube 3tag 0.19mm ID Orange/Red (PKT 6)



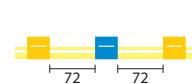
1.02-WHT3B-F

Contour Flared End PVC Pump Tube 3tag 1.02mm ID White/White (PKT 6)



1.52-PH-3

PharMed Pump Tube 3tag 1.52mm ID Yellow/Blue (PKT 12)



60-808-1185

Trident Internal Standard Kit



PRODUCT LIST

Nebulizers

SeaSpray

400µl/min uptake ARG-1-USS04X

MicroMist

400µl/min uptake ARG-1-UM04X

200µL/min uptake ARG-1-UM02X

100µl/min uptake ARG-1-UM01Q

50µl/min uptake ARG-1-UM005Q



OpalMist

400µl/min uptake ARG-1-PFA04X

200µl/min uptake ARG-1-PFA02X

100µl/min uptake ARG-1-PFA01Q

50µl/min uptake ARG-1-PFA005Q



IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for Agilent 7500 KT-1010



Spray Chambers

Twister with Aux. Port

50mL Cyclonic 20-809-2574HE

Requires adaptor kit KT-1006.



Tracey PFA44 with Aux. Port

44mL Cyclonic 20-809-2578

Suitable for use with HF. Requires adaptor kit KT-1006.



Adaptor Kit

Adaptor Kit KT-1006



Torches

Semi Demountable Torch

30-808-3068

Comprises:

Torch Body, Quartz 31-808-3051

Torch Adaptor 31-808-3067

Tapered Quartz 31-808-0773

Injector 2.4mm 31-808-0773

GazFit Connectors (PKT 4) GAZ-0604



PRODUCT LIST

Torches (continued)

Fixed Torch for 7500

Quartz Torch, 2.5mm Injector, 2 Projections, HMI compatible	30-807-0542
Standard Quartz Torch, 2.5mm Injector	30-808-0816
Standard Quartz Torch, 1.5mm Injector	30-808-1211
Standard Quartz Torch, 1.0mm Injector	30-807-0516



Quartz Injectors For Semi Demountable Torch

Tapered Quartz Injector 1.5mm	31-808-0771
Tapered Quartz Injector 1.8mm	31-808-0772
Tapered Quartz Injector 2.4mm	31-808-0773
Capillary Quartz Injector 4.0mm	31-808-2502



Bonnet

Quartz Torch Bonnet	31-808-2577
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Connector

Quartz Connector	31-808-2799
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Semi Demountable Torch with Alumina Injector

30-808-3069

Comprises:

Torch Body, Quartz	31-808-3051
Torch Adaptor	31-808-3067
Tapered Alumina Injector 2.4mm	31-808-0776
GazFit Connectors (PKT 4)	GAZ-0604



HF-resistant Injectors for Semi Demountable Torch

Tapered Alumina Injector 1.5mm	31-808-0774
Tapered Alumina Injector 1.8mm	31-808-0775
Tapered Alumina Injector 2.4mm	31-808-0776
Sapphire Injector 2.4mm	31-808-2580



RF Coils

RF Coil

Gold	70-900-7500G
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RF Coil

Silver	70-900-7500S
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RF Coils (continued)

Installation Kit

Installation Kit	70-900-7500T
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Cones

Nickel Sampler

(Agilent p/n G1820-65238)	AT1001-Ni
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Nickel Skimmer - 4500, 7500a

(Agilent p/n G1820-65265, G1820-65050)	AT1002-Ni
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Platinum Sampler, 10mm Insert

(Agilent p/n G1820-65239)	AT1006-Pt
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Platinum Skimmer

(Agilent p/n G1820-65237)	AT1008-Pt
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Nickel Skimmer - 7500c

(Agilent p/n G1833-65497)	AT1002C-Ni
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Platinum Skimmer - 7500c

(Agilent p/n G1833-65092)	AT1008C-Pt
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Nickel Sampler - T-mode

(Agilent p/n G1820-65480)	AT1001T-Ni
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Nickel Skimmer - T-mode

(Agilent p/n G1820-65481)	AT1002T-Ni
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Nickel Skimmer - 7500ce

(Agilent p/n G3270-65024)	AT1002CE-Ni
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Platinum Skimmer, Copper Base - 7500cs, 7500ce

(Agilent p/n G1883-65132)	AT1008CS-Pt
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Long Life Shield Plate, 7500/7700

(Agilent p/n G1833-65419)	AT5004
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Platinum Skimmer, Nickel Base, 7500cs, 7500ce

(Agilent p/n G3270-60106)	AT1008CS-Pt/Ni
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APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Clinical and forensic materials, Drinking, ground and surface water, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-1-USS04X SeaSpray U-Series Nebulizer 0.4mL/min		AT7702S-Ni Nickel Skimmer Cone for Agilent 7700s	
KT-1103 IsoMist Kit for Agilent 7700		AT7702X-Ni Nickel Skimmer Cone for Agilent 7700x	
30-807-0556 Quartz Torch with 2.5mm Injector for Agilent 7700		0.19-OR3B-F Contour Flared End PVC Pump Tube 3tag 0.19mm ID Orange/Red (PKT 6)	
31-808-2577 Quartz Torch Bonnet for Agilent 7500/7700		1.02-WHT3B-F Contour Flared End PVC Pump Tube 3tag 1.02mm ID White/White (PKT 6)	
AT7701-Ni Nickel Sampler Cone for Agilent 7700		1.52-PH-3 PharMed Pump Tube 3tag 1.52mm ID Yellow/Blue (PKT 12)	
		60-808-1185 Trident Internal Standard Kit	

Brines and salts

ARG-1-USS04X SeaSpray U-Series Nebulizer 0.4mL/min		AT7708X-Pt Platinum Skimmer Cone for Agilent 7700x	
KT-1103 IsoMist Kit for Agilent 7700		0.19-OR3B-F Contour Flared End PVC Pump Tube 3tag 0.19mm ID Orange/Red (PKT 6)	
30-807-0556 Quartz Torch with 2.5mm Injector for Agilent 7700		1.02-WHT3B-F Contour Flared End PVC Pump Tube 3tag 1.02mm ID White/White (PKT 6)	
31-808-2577 Quartz Torch Bonnet for Agilent 7500/7700		1.52-PH-3 PharMed Pump Tube 3tag 1.52mm ID Yellow/Blue (PKT 12)	
AT7706-Pt Platinum Sampler Cone for Agilent 7700		60-808-1185 Trident Internal Standard Kit	
AT7708S-Pt Platinum Skimmer Cone for Agilent 7700s		70-808-1226 Capricorn Argon Humidifier with bypass	

APPLICATION PACKAGES

Geological with HF, Soil and sediment with HF

ARG-1-PFA04X

OpalMist Nebulizer 0.4mL/min



KT-1103P

IsoMist Kit with PFA Spray Chamber for Agilent 7700



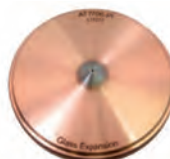
31-808-2577

Quartz Torch Bonnet for Agilent 7500/7700



AT7706-Pt

Platinum Sampler Cone for Agilent 7700



AT7708S-Pt

Platinum Skimmer Cone for Agilent 7700s



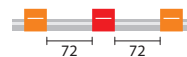
AT7708X-Pt

Platinum Skimmer Cone for Agilent 7700x



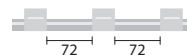
0.19-OR3B-F

Contour Flared End PVC Pump Tube 3tag 0.19mm ID Orange/Red (PKT 6)



1.02-WHT3B-F

Contour Flared End PVC Pump Tube 3tag 1.02mm ID White/White (PKT 6)



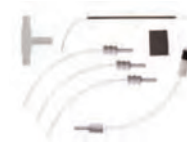
1.52-PH-3

PharMed Pump Tube 3tag 1.52mm ID Yellow/Blue (PKT 12)



60-808-1150

Trident Internal Standard Kit for HF solutions



Isotopic Analysis of Minerals

ARG-1-USS04X

SeaSpray U-Series Nebulizer 0.4mL/min



KT-1103

IsoMist Kit for Agilent 7700



30-807-0556

Quartz Torch with 2.5mm Injector for Agilent 7700



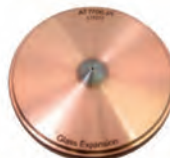
31-808-2577

Quartz Torch Bonnet for Agilent 7500/7700



AT7706-Pt

Platinum Sampler Cone for Agilent 7700



AT7708S-Pt

Platinum Skimmer Cone for Agilent 7700s



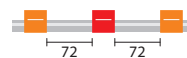
AT7708X-Pt

Platinum Skimmer Cone for Agilent 7700x



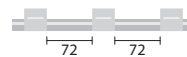
0.19-OR3B-F

Contour Flared End PVC Pump Tube 3tag 0.19mm ID Orange/Red (PKT 6)



1.02-WHT3B-F

Contour Flared End PVC Pump Tube 3tag 1.02mm ID White/White (PKT 6)



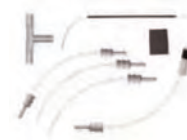
1.52-PH-3

PharMed Pump Tube 3tag 1.52mm ID Yellow/Blue (PKT 12)



60-808-1185

Trident Internal Standard Kit



Petrochemicals

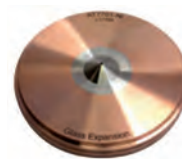
ARG-1-USS04X

SeaSpray U-Series Nebulizer 0.4mL/min



AT7701-Ni

Nickel Sampler Cone for Agilent 7700



KT-1103

IsoMist Kit for Agilent 7700



AT7702S-Ni

Nickel Skimmer Cone for Agilent 7700s



30-807-0558

Quartz Torch with 1.0mm Injector for Agilent 7700



AT7702X-Ni

Nickel Skimmer Cone for Agilent 7700x



31-808-2577

Quartz Torch Bonnet for Agilent 7500/7700



60-808-1185

Trident Internal Standard Kit



Semiconductors

ARG-1-PFA04X

OpalMist Nebulizer 0.4mL/min



AT7708S-Pt

Platinum Skimmer Cone for Agilent 7700s



KT-1103P

IsoMist Kit with PFA Spray Chamber for Agilent 7700



AT7708X-Pt

Platinum Skimmer Cone for Agilent 7700x



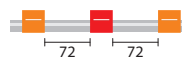
30-807-0556

Quartz Torch with 2.5mm Injector for Agilent 7700



0.19-OR3B-F

Contour Flared End PVC Pump Tube 3tag 0.19mm ID Orange/Red (PKT 6)



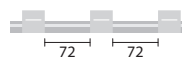
31-808-2577

Quartz Torch Bonnet for Agilent 7500/7700



1.02-WHT3B-F

Contour Flared End PVC Pump Tube 3tag 1.02mm ID White/White (PKT 6)



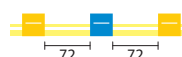
AT7706-Pt

Platinum Sampler Cone for Agilent 7700



1.52-PH-3

PharMed Pump Tube 3tag 1.52mm ID Yellow/Blue (PKT 12)



60-808-1185

Trident Internal Standard Kit



PRODUCT LIST

Nebulizers

SeaSpray

400µl/min uptake ARG-1-USS04X

MicroMist

400µl/min uptake ARG-1-UM04X
200µL/min uptake ARG-1-UM02X
100µl/min uptake ARG-1-UM01Q
50µl/min uptake ARG-1-UM005Q

OpalMist

400µl/min uptake ARG-1-PFA04X
200µl/min uptake ARG-1-PFA02X
100µl/min uptake ARG-1-PFA01Q
50µl/min uptake ARG-1-PFA005Q

IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for
Agilent 7700 KT-1103

Spray Chambers

Twister with Aux. Port

50mL Cyclonic 20-809-2574HE
Requires adaptor kit KT-1104.

Tracey PFA44 with Aux. Port

44mL Cyclonic 20-809-2578
Suitable for use with HF.
Requires adaptor kit KT-1104.

Adaptor Kit

Adaptor Kit for 7700 KT-1104

Torches

Fixed Torch for 7700

Quartz Torch, 2.5mm
Injector 30-807-0556
Quartz Torch,
1.5mm Injector 30-807-0557
Quartz Torch,
1.0mm Injector 30-807-0558

Bonnet

Quartz Torch Bonnet 31-808-2577

Cones

Nickel Sampler - 7700

(Agilent p/n G3280-67040) AT7701-Ni

Nickel Skimmer - 7700x

(Agilent p/n G3280-67041) AT7702X-Ni

Nickel Skimmer - 7700s

(Agilent p/n G3280-67066) AT7702S-Ni

Nickel Plated Sampler - 7700

(Agilent p/n G3280-67061) AT7701-Ni/Ni

Platinum Sampler - 7700

(Agilent p/n G3280-67036) AT7706-Pt

Platinum Sampler - 7700 (18mm insert)

(Agilent p/n G3280-67056) AT7706A-Pt

Copper Skimmer - 7700s

(Agilent p/n G3280-67067) AT7702S-Cu

Platinum Skimmer - 7700x

(Agilent p/n G3280-67060) AT7708X-Pt

Platinum Skimmer with Nickel Base - 7700x

(Agilent p/n G3280-67063) AT7708X-Pt/Ni

Platinum Skimmer - 7700s

(Agilent p/n G3280-67064) AT7708S-Pt

Platinum Skimmer with Nickel Base - 7700s

(Agilent p/n G3280-67065) AT7708S-Pt/Ni

Retaining Ring for Agilent 7700 Sampler Cone

(Agilent p/n G3280-20504) AT7704

Graphite Gasket for Agilent 7700 Sampler Cone (PKT 3)


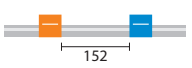


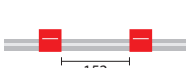


(Agilent p/n G3280-67009) AT7703

APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-1004T RF Coil Installation Tool for 700-ES Series Axial	
20-809-0600HE Tracey Spray Chamber with Helix		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
30-808-0478 Quartz Torch with 90° bend and 2.3mm Injector		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
70-900-1000G RF Coil Gold for Vista Axial		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-1000T RF Coil Installation Tool for Vista Axial		60-808-1185 Trident Internal Standard Kit	
70-900-1004G RF Coil Gold for 700-ES Series Axial			

Brines and salts

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
20-809-0285HE Twister Spray Chamber with Helix		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
30-808-9983 High Solids Quartz Torch (Short) with 90° bend and 2.3mm Injector		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-1000ST RF Coil Silver Teflon Coated for Vista Axial		60-808-1185 Trident Internal Standard Kit	
70-900-1000T RF Coil Installation Tool for Vista Axial			
70-900-1004ST RF Coil Silver Teflon Coated for 700-ES Series Axial		70-803-0608 Capricorn Argon Humidifier with bypass for Varian models	
70-900-1004T RF Coil Installation Tool for 700-ES Series Axial			

Clinical and forensic materials

ARG-07-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		70-900-1000G RF Coil Gold for Vista Axial	
20-809-0285HE Twister Spray Chamber with Helix		70-900-1000T RF Coil Installation Tool for Vista Axial	
30-808-0478 Quartz Torch with 90° bend and 2.3mm Injector		70-900-1004G RF Coil Gold for 700-ES Series Axial	

Clinical and forensic materials (continued)

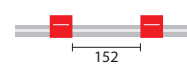
70-900-1004T

RF Coil Installation Tool for 700-ES Series Axial



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



0.19-OR-F

Contour Flared End PVC Pump Tube 2tag
0.19mm ID Orange/Red (PKT 6)



60-808-1185

Trident Internal Standard Kit



0.38-OG-F

Contour Flared End PVC Pump Tube 2tag
0.38mm ID Orange/Green (PKT 6)



Drinking, ground and surface water

ARG-07-USS2

SeaSpray U-Series Nebulizer 2mL/min



70-900-1004G

RF Coil Gold for 700-ES Series Axial



20-809-0600HE

Tracey Spray Chamber with Helix



70-900-1004T

RF Coil Installation Tool for 700-ES Series Axial



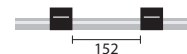
30-808-0478

Quartz Torch with 90° bend and 2.3mm Injector



0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



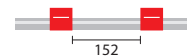
70-900-1000G

RF Coil Gold for Vista Axial



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



70-900-1000T

RF Coil Installation Tool for Vista Axial



Geological with HF, Soil and sediment with HF

ARG-07-DM1

DuraMist Nebulizer 1mL/min



70-900-1000T

RF Coil Installation Tool for Vista Axial



20-809-9188

Tracey TFE Spray Chamber with Helix



70-900-1004ST

RF Coil Silver Teflon Coated for 700-ES Series Axial



70-900-1004T

RF Coil Installation Tool for 700-ES Series Axial



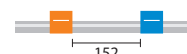
21-809-2831

PuraFlex Transfer Tube 230mm



0.25-OB-F

Contour Flared End PVC Pump Tube 2tag
0.25mm ID Orange/Blue (PKT 6)



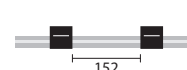
21-100-0364

Mounting Bracket for HF Spray Chamber, Axial



0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



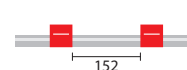
30-808-0383

Semi Demountable Torch with Alumina Injector 2.4mm



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



70-900-1000ST

RF Coil Silver Teflon Coated for Vista Axial






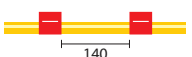
60-808-1150

Trident Internal Standard Kit for HF solutions







APPLICATION PACKAGES

Petrochemicals			
ARG-07-UM06 MicroMist U-Series Nebulizer 0.6mL/min		70-900-1000T RF Coil Installation Tool for Vista Axial	
KT-1014 IsoMist Kit for Varian 700-ES or Vista Axial		70-900-1004G RF Coil Gold for 700-ES Series Axial	
30-808-1346 Quartz Torch with 90° bend and 0.8mm Injector		70-900-1004T RF Coil Installation Tool for 700-ES Series Axial	
70-900-1000G RF Coil Gold for Vista Axial		0.76-BLK-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
		1.14-RED-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

Wear Metals in oil			
ARG-07-US6 Slurry U-Series Nebulizer 4mL/min		70-900-1000T RF Coil Installation Tool for Vista Axial	
20-809-0285HE Twister Spray Chamber with Helix		70-900-1004G RF Coil Gold for 700-ES Series Axial	
30-808-1346 Quartz Torch with 90° bend and 0.8mm Injector		70-900-1004T RF Coil Installation Tool for 700-ES Series Axial	
70-900-1000G RF Coil Gold for Vista Axial		0.76-BLK-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
		1.14-RED-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

PRODUCT LIST

Nebulizers			
Conikal			
2mL/min uptake	ARG-07-UC2		
SeaSpray			
2mL/min uptake	ARG-07-USS2		
Slurry			
4mL/min uptake	ARG-07-US6		
MicroMist			
600µL/min uptake	ARG-07-UM06		
200µL/min uptake	ARG-07-UM02		
100µL/min uptake	ARG-07-UM01		
50µL/min uptake	ARG-07-UM005		
Nebulizers (continued)			
OpalMist			
2mL/min uptake	ARG-07-PFA2		
600µL/min uptake	ARG-07-PFA06		
200µL/min uptake	ARG-07-PFA02		
100µL/min uptake	ARG-07-PFA01		
50µL/min uptake	ARG-07-PFA005		
DuraMist			
1mL/min uptake	ARG-07-DM1		
400µL/min uptake	ARG-07-DM04		
VeeSpray - Ceramic			
Standard	ARG-07-CV6		

PRODUCT LIST

IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for 700-ES or Vista Axial KT-1014

IsoMist Kit for 700-ES or Vista Axial.
All glass system KT-1054



Spray Chambers

Tracey

50mL Cyclonic 20-809-0600HE



Twister

50mL Cyclonic 20-809-0285HE



Cinnabar

20mL Cyclonic 20-809-0183HE



Twinnabar

20mL Cyclonic 20-809-0448HE



Tracey TFE

50mL Cyclonic 20-809-9188
Suitable for use with HF.



Mounting Bracket - HF Spray Chamber

21-100-0364



PuraFlex Transfer Tube

21-809-2831

Connects spray chamber to torch.
Requires adjustable mount 21-100-0215, or for HF, 21-100-0364.



Torches

Fixed Torches (Quartz one piece)

Quartz Torch with 90° Bend 30-808-0478

Quartz Torch (High Solids, short) with 90° Bend 30-808-9983

Quartz Torch (High Solids, Full-Length) with 90° Bend 30-807-0528



Torches (continued)

Semi Demountable Torch

30-808-0379

Comprises:

Quartz Torch Body 31-808-0353

Tapered Quartz Injector 2.4mm 31-808-0400

Torch Adaptor 31-808-0863

GazFit Connectors (PKT 4) - for 6mm OD side arms GAZ-06

GazFit Connectors (PKT 2) - for 8mm torch adaptor GAZ-08



Semi Demountable Torch Options

Quartz Torch Body - Short (for high solids) 31-808-0177

Tapered Quartz Injector 1.0mm 31-808-0544

Tapered Quartz Injector 1.5mm 31-808-0543

Tapered Quartz Injector 1.8mm 31-808-0545

Tapered Quartz Injector 2.4mm 31-808-0400

Axial ABC Fully Demountable Torch

30-808-0878

Comprises:

Torch Body & Case Assembly 31-808-1231

Quartz Injector 2.4mm Fully Demountable 31-808-0926

Tube Intermediate Fully Demountable 31-808-0908

Tube Outer Fully Demountable Axial 31-808-0841

ABC Vista Axial Swivel Adaptor 31-808-0798

Kit O-Rings Fully Demountable Torch 70-0805

ABC Fully Demountable Torch Options

Tapered Quartz Injector 1.0mm Fully Demountable 31-808-0925

Tapered Quartz Injector 1.5mm Fully Demountable 31-808-0906

Tapered Quartz Injector 1.8mm Fully Demountable 31-808-9988

Tapered Quartz Injector 2.4mm Fully Demountable 31-808-0926

Capillary Quartz Injector 2.4mm 31-808-1244

Outer Tube Fully Demountable Axial (High Solids) 31-808-1307

Mounting Bracket Varian Axial ABC Fully Demountable Torch 31-808-1094

Ceramic Injector 1.5mm Fully Demountable 31-808-9201

Ceramic Injector 1.8mm Fully Demountable 31-808-0928

Ceramic Injector 2.4mm Fully Demountable 31-808-9202



PRODUCT LIST

Torches (continued)

Fixed Torches for All Glass System

Quartz Torch with
2.3mm Injector and
Right Angle Ball Joint 30-808-0540

Quartz Torch with
1.8mm Capillary Injector
- (for oil analysis) and
Right Angle Ball Joint 30-808-0887

Quartz Torch (High
Solids) with 2.3mm
Injector and Right
Angle Ball Joint 30-808-1255

Quartz Torch (organics)
with 0.8mm Injector and
Right Angle Ball Joint 30-808-8216



Semi Demountable Torch with Alumina Injector

30-808-0383

Comprises:

Quartz Torch Body 31-808-0353

Tapered Alumina Injector
2.4mm 31-808-0401

Torch Adaptor 31-808-0863

GazFit Connectors
(PKT 4) - for 6mm
OD side arms GAZ-06

GazFit Connectors
(PKT 2)- for 8mm
torch adaptor GAZ-08



HF Resistant Injectors for Semi Demountable Torch

Tapered Alumina Injector
1.8mm 31-808-0814

Tapered Alumina Injector
2.4mm 31-808-0401

Sapphire Injector
2.4mm 31-808-1426



RF Coils (continued)

RF Coil

Silver 700ES 70-900-1004S



RF Coil

Silver, Teflon Coated
700ES 70-900-1004ST



Installation kit

700ES 70-900-1004T



Kits

Axial All Glass System

KT-8045A

Kit Comprises:

Twister Spray Chamber 20-809-9199HE

Quartz Torch RA/FS13
& 2.3mm Injector 30-808-0540

Glass Transfer Tube-206,
+ JC-13 Clip 31-809-0274

Adjustable Mount 21-100-0215

All Glass System Options

Jacketed Spray Chamber
Adjustable Mount 21-100-0216

Quartz Torch, High
Solids, RA/FS13
+ 2.3mm injector 21-808-1255

Quartz Torch, RA/FS13
+ 1.8mm Capillary
injector 21-808-0887

Quartz Torch, Organics,
RA/FS13 + 0.8mm
injector 21-808-8216



RF Coils

RF Coil

Gold Vista 70-900-1000G



RF Coil

Silver Vista 70-900-1000S



RF Coil

Silver, Teflon Coated
Vista 70-900-1000ST



Installation kit

Vista 70-900-1000T



RF Coil

Gold 700ES 70-900-1004G



APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Drinking, ground and surface water, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-1001T RF Coil Installation Tool for Vista Radial	
20-809-0600HE Tracey Spray Chamber with Helix		70-900-1005G RF Coil Gold for 700-ES Series Radial	
30-808-3052 D-Torch for 700-ES or Vista Radial (without injector)		70-900-1005T RF Coil Installation Tool for 700-ES Series Radial	
31-808-3058 Tapered Quartz Injector for D-Torch 1.5mm		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
70-900-1001G RF Coil Gold for Vista Radial		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

Brines and salts

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-1005ST RF Coil Silver Teflon Coated for 700-ES Series Radial	
20-809-0285HE Twister Spray Chamber with Helix		70-900-1005T RF Coil Installation Tool for 700-ES Series Radial	
30-808-3052 D-Torch for 700-ES or Vista Radial (without injector)		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-3058 Tapered Quartz Injector for D-Torch 1.5mm		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
31-808-3092 Ceramic Outer Tube for D-Torch		70-803-0608 Capricorn Argon Humidifier with bypass for Varian models	
70-900-1001ST RF Coil Silver Teflon Coated for Vista Radial			
70-900-1001T RF Coil Installation Tool for Vista Radial			

Clinical and forensic materials

ARG-07-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		31-808-3058 Tapered Quartz Injector for D-Torch 1.5mm	
20-809-0285HE Twister Spray Chamber with Helix		70-900-1001G RF Coil Gold for Vista Radial	
30-808-3052 D-Torch for 700-ES or Vista Radial (without injector)		70-900-1001T RF Coil Installation Tool for Vista Radial	

APPLICATION PACKAGES

Clinical and forensic materials (continued)

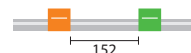
70-900-1005G

RF Coil Gold for 700-ES Series Radial



0.38-OG-F

Contour Flared End PVC Pump Tube 2tag
0.38mm ID Orange/Green (PKT 6)



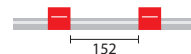
70-900-1005T

RF Coil Installation Tool for 700-ES
Series Radial



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



Geological with HF, Soil and sediment with HF

ARG-07-DM1

DuraMist Nebulizer 1mL/min



31-808-3160

Alumina Injector for Radial D-Torch 1.8mm



20-809-9188

Tracey TFE Spray Chamber with Helix



70-900-1001ST

RF Coil Silver Teflon Coated for Vista Radial



70-900-1001T

RF Coil Installation Tool for Vista Radial



21-809-2735

PuraFlex Transfer Tube



70-900-1005ST

RF Coil Silver Teflon Coated for 700-ES
Series Radial



21-809-2555

Mounting Bracket for HF Spray Chamber,
Radial



70-900-1005T

RF Coil Installation Tool for 700-ES
Series Radial



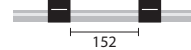
30-808-3052

D-Torch for 700-ES or Vista Radial
(without injector)



0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



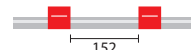
31-808-3092

Ceramic Outer Tube for D-Torch



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



Petrochemicals

ARG-07-UM06

MicroMist U-Series Nebulizer 0.6mL/min



70-900-1001T

RF Coil Installation Tool for Vista Radial



KT-1022

IsoMist Kit for 700-ES or Vista Radial



70-900-1005G

RF Coil Gold for 700-ES Series Radial



30-808-3052

D-Torch for 700-ES or Vista Radial
(without injector)



70-900-1005T

RF Coil Installation Tool for 700-ES
Series Radial



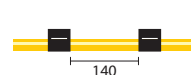
31-808-3195

Tapered Quartz Injector for D-Torch 0.8mm



0.76-BLK-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 0.76mm ID Black/Black (PKT 6)



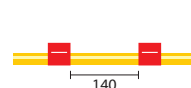
31-808-3092

Ceramic Outer Tube for D-Torch



1.14-RED-SF-F





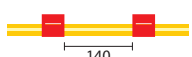

Contour Flared End Solva Flex Pump Tube
2tag 1.14mm ID Red/Red (PKT 6)






70-900-1001G


RF Coil Gold for Vista Radial






Wear Metals in oil			
ARG-07-US6 Slurry U-Series Nebulizer 4mL/min		70-900-1001T RF Coil Installation Tool for Vista Radial	
20-809-0285HE Twister Spray Chamber with Helix		70-900-1005G RF Coil Gold for 700-ES Series Radial	
30-808-3052 D-Torch for 700-ES or Vista Radial (without injector)		70-900-1005T RF Coil Installation Tool for 700-ES Series Radial	
31-808-3195 Tapered Quartz Injector for D-Torch 0.8mm		0.76-BLK-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-3092 Ceramic Outer Tube for D-Torch		1.14-RED-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-1001G RF Coil Gold for Vista Radial			

PRODUCT LIST

Nebulizers		
Conikal 2mL/min uptake ARG-07-UC2		
SeaSpray 2mL/min uptake ARG-07-USS2		
Slurry 4mL/min uptake ARG-07-US6		
MicroMist 600µL/min uptake ARG-07-UM06 200µL/min uptake ARG-07-UM02 100µL/min uptake ARG-07-UM01 50µL/min uptake ARG-07-UM005		
OpalMist 2mL/min uptake ARG-07-PFA2 600µL/min uptake ARG-07-PFA06 200µL/min uptake ARG-07-PFA02 100µL/min uptake ARG-07-PFA01 50µL/min uptake ARG-07-PFA005		
DuraMist 1mL/min uptake ARG-07-DM1 400µL/min uptake ARG-07-DM04		
VeeSpray - Ceramic Standard ARG-07-CV6		

IsoMist	
IsoMist Programmable Temperature Spray Chamber IsoMist Kit for 700-ES or Vista Radial KT-1022 IsoMist Kit for 700-ES or Vista Radial All Glass System KT-1055	

Spray Chambers		
Tracey 50mL Cyclonic 20-809-0600HE		
Twister 50mL Cyclonic 20-809-0285HE		
Cinnabar 20mL Cyclonic 20-809-0183HE		
Twinnabar 20mL Cyclonic 20-809-0448HE		

PRODUCT LIST

Spray Chambers (continued)

Tracey TFE

50mL Cyclonic 20-809-9188

Suitable for use with HF.



Mounting Bracket - HF Spray Chamber

21-809-2555



PuraFlex Transfer Tube

21-809-2735

Connects spray chamber to torch.
Requires adjustable mount 21-809-2555.



Torches

D-Torch Demountable Torch

D-Torch with Quartz Outer Tube 30-808-3052

Comprises:

Base and Inner Tube 31-808-3146

Quartz Outer Tube 31-808-3062

Retaining Ring for Outer Tube 31-808-2818

Retaining Ring for Injector 31-808-2921



Tapered Quartz Injectors

Tapered Quartz Injector 1.5mm 31-808-3058

Tapered Quartz Injector 0.8mm 31-808-3195



Ceramic Outer Tube

31-808-3092



Tapered Quartz Injector 1.5mm with Ball Joint

31-808-3150



Alumina Injector 1.8mm

31-808-3160



Semi Demountable Torch

30-808-0542

Comprises:

Torch Body, Quartz 31-808-0541

Torch Adaptor 8/44 31-808-2638

Tapered Quartz Injector 1.5mm 31-808-0543

GazFit Connectors (PKT 4) for 6mm OD side arms GAZ-06



Torches (continued)

Quartz Injectors for Semi-Demountable Torch

Tapered Quartz Injector 1.0mm 31-808-0544

Tapered Quartz Injector 1.5mm 31-808-0543

Tapered Quartz Injector 1.8mm 31-808-0545

Tapered Quartz Injector 2.4mm 31-808-0400



ABC Fully Demountable Torch

30-808-0805

Comprises:

Torch Body & Case Assembly 31-808-1231

Quartz Injector 1.5mm Fully Demountable 31-808-0906

Tube Intermediate Fully Demountable 31-808-0908

Tube Outer Fully Demountable Radial 31-808-0907

Polypropylene 8mm Joint Adaptor 31-808-0498

Kit O-Rings Fully Demountable Torch 70-0805



ABC Torch Options

Quartz Injector 1.0mm Fully Demountable 31-808-0925

Quartz Injector 1.5mm Fully Demountable 31-808-0906

Quartz Injector 1.8mm Fully Demountable 31-808-9988

Quartz Injector 2.4mm Fully Demountable 31-808-0926

Mounting Bracket for Vista Radial ABC Fully Demountable Torch 31-808-0500

HF Resistant Options for ABC Fully Demountable Torch

Ceramic Injector 1.5mm Fully Demountable 31-808-9201

Ceramic Injector 1.8mm Fully Demountable 31-808-0928

Ceramic Injector 2.4mm Fully Demountable 31-808-9202

Ceramic Outer Tube, Fully Demountable Radial 31-808-0927



Fixed Torches

Quartz Torch, Low Flow, 1.5mm Injector 30-800-0015

Quartz Torch, High Solids, 1.8mm Injector 30-808-1182

Quartz Torch, 0.8mm Injector 30-807-0539



Torches (continued)

Other Products

Quartz Torch Bonnet 31-800-0003



Semi Demountable Torch HF

30-808-0942

Comprises:

Torch Body, Quartz 31-808-0541

Torch Adaptor 8/44 31-808-2638

Tapered Alumina Injector 1.8mm 31-808-0938

GazFit Connectors (PKT 4)
for 6mm OD side arms GAZ-06



Kits

Radial All Glass System Kit

KT-8046A

Kit Comprises:

Twister Spray Chamber 20-809-9199HE

Radial Torch with
Ball Joint and 1.5mm
Injector 30-808-0875

Glass Transfer Tube-160,
+ JC-13 Clip 31-809-0549

Adjustable Mount 21-100-0200

All Glass System Options

Jacketed Spray Chamber
Adjustable Mount 21-100-0217

Quartz Torch with Ball
Joint and 1.8mm
Injector High Solids 30-807-0536



RF Coils

RF Coil

Gold Vista 70-900-1001G



RF Coil

Silver Vista 70-900-1001S



RF Coil

Silver, Teflon Coated
Vista 70-900-1001ST



Installation kit

Vista 70-900-1001T



RF Coil

Gold 700ES 70-900-1005G



RF Coil

Silver 700ES 70-900-1005S



RF Coil

Silver, Teflon Coated
700ES 70-900-1005ST



Installation kit

700ES 70-900-1005T



APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-1-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-5000T RF Coil Installation Tool for JY	
20-808-8882HE Tracey Spray Chamber with Helix		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
70-900-5000S RF Coil Silver for JY		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	





Brines and salts

ARG-1-USS2 SeaSpray U-Series Nebulizer 2mL/min		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
20-809-0222HE Twister Spray Chamber with Helix		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-5000G RF Coil Gold for JY		70-808-1226 Capricorn Argon Humidifier with bypass	
70-900-5000T RF Coil Installation Tool for JY			

Clinical and forensic materials

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		70-900-5000T RF Coil Installation Tool for JY	
20-809-0222HE Twister Spray Chamber with Helix		0.38-OG-F Contour Flared End PVC Pump Tube 2tag 0.38mm ID Orange/Green (PKT 6)	
70-900-5000S RF Coil Silver for JY		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

Drinking, ground and surface water

ARG-1-UC1 Conikal U-Series Nebulizer 1mL/min		70-900-5000T RF Coil Installation Tool for JY	
20-808-8882HE Tracey Spray Chamber with Helix		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
70-900-5000S RF Coil Silver for JY		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

Geological with HF, Soil and sediment with HF

ARG-1-DM1

DuraMist Nebulizer 1mL/min



70-900-5000T

RF Coil Installation Tool for JY



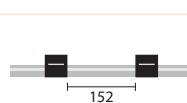
20-809-2506

Tracey TFE Spray Chamber with Helix



0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



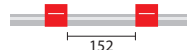
70-900-5000G

RF Coil Gold for JY



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



Petrochemicals

ARG-1-UM04

MicroMist U-Series Nebulizer 0.4mL/min



70-900-5000T

RF Coil Installation Tool for JY



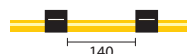
KT-1064

IsoMist Kit for Horiba Jobin Yvon



0.76-BLK-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 0.76mm ID Black/Black (PKT 6)



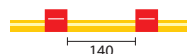
70-900-5000S

RF Coil Silver for JY



1.14-RED-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 1.14mm ID Red/Red (PKT 6)



Wear Metals in oil

ARG-1-US6

Slurry U-Series Nebulizer 4mL/min



70-900-5000T

RF Coil Installation Tool for JY



20-809-0222HE

Twister Spray Chamber with Helix



0.76-BLK-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 0.76mm ID Black/Black (PKT 6)



70-900-5000S

RF Coil Silver for JY



1.14-RED-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 1.14mm ID Red/Red (PKT 6)



PRODUCT LIST

Nebulizers

Conikal

1mL/min uptake ARG-1-UC1

SeaSpray

2mL/min uptake ARG-1-USS2

Slurry

4mL/min uptake ARG-1-US6

MicroMist

400µL/min uptake ARG-1-UM04

200µL/min uptake ARG-1-UM02

100µL/min uptake ARG-1-UM01

50µL/min uptake ARG-1-UM005



Nebulizers (continued)

OpalMist

2mL/min uptake ARG-1-PFA2

400µL/min uptake ARG-1-PFA04

200µL/min uptake ARG-1-PFA02

100µL/min uptake ARG-1-PFA01

50µL/min uptake ARG-1-PFA005



DuraMist

1mL/min uptake ARG-1-DM1

400µL/min uptake ARG-1-DM04



VeeSpray - Ceramic

Standard ARG-1-CV6



PRODUCT LIST

IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for
Horiba Jobin Yvon KT-1064



Spray Chambers

Tracey

50mL Cyclonic 20-808-8882HE



Twister

50mL Cyclonic 20-809-0222HE



Cinnabar

20mL Cyclonic 20-809-0164HE



Tracey TFE

50mL Cyclonic 20-809-2506
Suitable for use with HF.



Components for JY Designed Demountable Torch

Quartz Inner Tube

31-808-0118



Quartz Outer Tube

31-808-8123



Torch Bonnet

31-800-0023



HF Resistant Components for JY Designed Demountable Torch

Alumina Inner Tube

31-808-0571



Alumina Injector Tube 2.9mm

31-808-0567



RF Coils

RF Coil

Gold 70-900-5000G



RF Coil

Silver 70-900-5000S



Installation kit

70-900-5000T



APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Clinical and forensic materials, Drinking, ground and surface water, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		70-900-2006T RF Coil Installation Tool for PE Elan 6000/9000 Series	
KT-1013 IsoMist Kit for PerkinElmer Elan		PE2011-Ni Nickel Sampler Cone for Elan	
30-807-0540 D-Torch with Quartz Outer Tube for Elan		PE2012-Ni Nickel Skimmer Cone for Elan	
31-800-0012 Quartz Torch Bonnet		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
31-807-0004 Tapered Quartz Injector 2.0mm (for non-DRC models)		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-0806 Tapered Quartz Injector with Ball Joint 2.0mm (for DRC models)		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-2006C RF Coil Copper for PE Elan 6000/9000 Series		60-808-1185 Trident Internal Standard Kit	

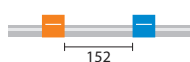
Brines and salts

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		31-808-0806 Tapered Quartz Injector with Ball Joint 2.0mm (for DRC models)	
KT-1013 IsoMist Kit for PerkinElmer Elan		70-900-2006C RF Coil Copper for PE Elan 6000/9000 Series	
30-807-0540 D-Torch with Quartz Outer Tube for Elan		70-900-2006T RF Coil Installation Tool for PE Elan 6000/9000 Series	
31-808-2849 Ceramic Outer Tube for D-Torch		PE2013-Pt Platinum Sampler Cone for Elan	
31-800-0012 Quartz Torch Bonnet		PE2014-Pt Platinum Skimmer Cone for Elan	
31-807-0004 Tapered Quartz Injector 2.0mm (for non-DRC models)			

Brines and salts (continued)

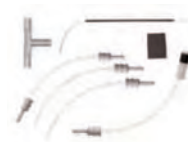
0.25-OB-F

Contour Flared End PVC Pump Tube 2tag
0.25mm ID Orange/Blue (PKT 6)



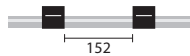
60-808-1185

Trident Internal Standard Kit



0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



70-803-0570

Capricorn Argon Humidifier with bypass
for PerkinElmer models



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



Geological with HF, Soil and sediment with HF

ARG-1-PFA04

OpalMist Nebulizer 0.4mL/min



PE2013-Pt

Platinum Sampler Cone for Elan



KT-1013P

IsoMist Kit with PFA Spray Chamber for
PerkinElmer Elan



PE2014-Pt

Platinum Skimmer Cone for Elan



30-807-0540

D-Torch with Quartz Outer Tube for Elan



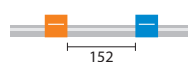
31-808-2849

Ceramic Outer Tube for D-Torch



0.25-OB-F

Contour Flared End PVC Pump Tube 2tag
0.25mm ID Orange/Blue (PKT 6)



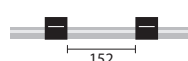
31-800-0012

Quartz Torch Bonnet



0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



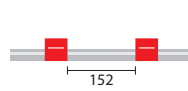
31-807-0060

Tapered Alumina Injector 2.0mm



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



70-900-2006C

RF Coil Copper for PE Elan 6000/9000
Series



60-808-1150

Trident Internal Standard Kit for HF solutions



70-900-2006T

RF Coil Installation Tool for PE Elan
6000/9000 Series



Isotopic Analysis of Minerals

ARG-1-USS04

SeaSpray U-Series Nebulizer 0.4mL/min



31-800-0012

Quartz Torch Bonnet



KT-1013

IsoMist Kit for PerkinElmer Elan



31-807-0004

Tapered Quartz Injector 2.0mm
(for non-DRC models)



30-807-0540

D-Torch with Quartz Outer Tube for Elan



31-808-0806

Tapered Quartz Injector with Ball Joint
2.0mm (for DRC models)



APPLICATION PACKAGES

Isotopic Analysis of Minerals (continued)

70-900-2006C RF Coil Copper for PE Elan 6000/9000 Series		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
70-900-2006T RF Coil Installation Tool for PE Elan 6000/9000 Series		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
PE2013-Pt Platinum Sampler Cone for Elan		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
PE2014-Pt Platinum Skimmer Cone for Elan		60-808-1185 Trident Internal Standard Kit	

Petrochemicals

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		70-900-2006T RF Coil Installation Tool for PE Elan 6000/9000 Series	
KT-1013 IsoMist Kit for PerkinElmer Elan		PE2011-Ni Nickel Sampler Cone for Elan	
30-807-0540 D-Torch with Quartz Outer Tube for Elan		PE2012-Ni Nickel Skimmer Cone for Elan	
31-808-2849 Ceramic Outer Tube for D-Torch		0.25-OB-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
31-800-0012 Quartz Torch Bonnet		0.76-BLK-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-0789 Tapered Quartz Injector 1.2mm (for non-DRC models)		1.14-RED-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
31-808-3125 Tapered Quartz Injector with Ball Joint 0.85mm (for DRC models)		60-808-1185 Trident Internal Standard Kit	
70-900-2006C RF Coil Copper for PE Elan 6000/9000 Series			

Semiconductors

ARG-1-PFA04

OpalMist Nebulizer 0.4mL/min



KT-1013P

IsoMist Kit with PFA Spray Chamber for PerkinElmer Elan



30-807-0540

D-Torch with Quartz Outer Tube for Elan



31-808-2849

Ceramic Outer Tube for D-Torch



31-800-0012

Quartz Torch Bonnet



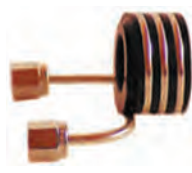
31-808-2803

Sapphire Injector 2.0mm



70-900-2006C

RF Coil Copper for PE Elan 6000/9000 Series



70-900-2006T

RF Coil Installation Tool for PE Elan 6000/9000 Series



PE2013-Pt

Platinum Sampler Cone for Elan



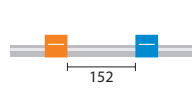
PE2014-Pt

Platinum Skimmer Cone for Elan



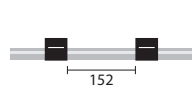
0.25-OB-F

Contour Flared End PVC Pump Tube 2tag
0.25mm ID Orange/Blue (PKT 6)



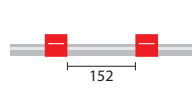
0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



60-808-1185

Trident Internal Standard Kit



PRODUCT LIST

Nebulizers

SeaSpray

400µL/min uptake ARG-1-USS04

MicroMist

400µL/min uptake ARG-1-UM04

200µL/min uptake ARG-1-UM02

100µL/min uptake ARG-1-UM01

50µL/min uptake ARG-1-UM005



OpalMist

400µL/min uptake ARG-1-PFA04

200µL/min uptake ARG-1-PFA02

100µL/min uptake ARG-1-PFA01

50µL/min uptake ARG-1-PFA005



IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for
PerkinElmer Elan KT-1013



Spray Chambers

Spray Chambers – Suitable for Torch adaptor 31-808-0827 or 31-808-2825

The following spray chambers are suitable for torch adaptors 31-808-0827 (equivalent PerkinElmer P/N N8120116) or 31-808-2825 (equivalent PerkinElmer P/N W1013266). These torch adaptors are usually used with non-DRC Elan models, or with Elan DRC models using an HF-resistant sample introduction system. They require the Elan Screw Mount CSC Adaptor, part number 21-808-0389, for secure mounting.

Tracey

50mL Cyclonic 20-809-0224HE









Twister

50mL Cyclonic 20-809-0578HE



PRODUCT LIST

Spray Chambers (continued)		
Cinnabar 20mL Cyclonic 20-809-0162HE		
Twinnabar 20mL Cyclonic 20-809-0491HE		
Tracey PFA44 44mL Cyclonic 20-809-2509 With ScrewLok. Suitable for use with HF		
Other Adaptors Elan Screw Mount CSC Adaptor 21-808-0389 Elan Adaptor Nut 21-808-0388 Elan Screw Mount CSC Adaptor with Aux Port 21-809-2733		
Spray Chambers – Suitable for Torch adaptor 31-808-0825 or 31-808-2824 The following spray chambers are suitable for torch adaptors 31-808-0825 (equivalent PerkinElmer P/N WE023951) or 31-808-2824 (equivalent PerkinElmer P/N W1012406). This adaptor is usually used with DRC Elan models.		
Twister 50mL Cyclonic 20-809-0296HE		
Cinnabar 20mL Cyclonic 20-809-0322HE		
Helix Nebulizer Adaptor 6/35 21-808-1010 For PE Scott style spray chambers.		

Torches		
D-Torch with Quartz Outer Tube 30-807-0540		
Comprises:		
Base and Inner Tube	31-808-2847	
Quartz Outer Tube	31-808-2848	
Retaining Ring	31-808-2818	
Ceramic Outer Tube for D-Torch 31-808-2849		
Quartz Torch		
Standard Quartz Torch	30-808-8107	
High Efficiency Quartz Torch	31-808-2784	
Quartz Injectors (non DRC)		
Tapered Quartz Injector 1.0mm	31-808-0370	
Tapered Quartz Injector 1.2mm	31-808-0789	
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 suitable for torch adaptors 31-808-0827 (equivalent PerkinElmer P/N N8120116) or 31-808-2825 (equivalent PerkinElmer P/N W1013266). These adaptors are usually used with non-DRC Elan models.		
Quartz Injectors (DRC Versions)		
Tapered Quartz Injector with Ball Joint, 2.0mm	31-808-0806	
Tapered Quartz Injector with Ball Joint, 1.5mm	31-808-0851	
Tapered Quartz Injector with Ball Joint, 0.85mm	31-808-3125	
These injectors are suitable for torch adaptors 31-808-0825 (equivalent PerkinElmer P/N WE023951) or 31-808-2824 (equivalent PerkinElmer P/N W1012406). These adaptors are usually used with DRC Elan models.		
Torch Adaptor		
Elan DRC Torch Adaptor	31-808-0825	
This adaptor is suitable for injectors with a ball joint		
Torch Adaptor		
Cassette Mount Adaptor for Ball Joint Injector	31-808-2824	
This adaptor is suitable for injectors with a ball joint.		

Torches (continued)

Torch Adaptor

Elan Torch Adaptor 31-808-0827

This adaptor is suitable for injectors without a ball joint

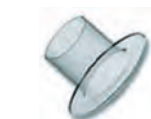
**Torch Adaptor**

PFA Cassette Mount Adaptor 31-808-2825

This adaptor is suitable for injectors without a ball joint.

**Other Components**

Quartz Bonnet for Elan 31-800-0012

**HF Resistant Injectors**Tapered Alumina Injector 1.5mm
31-807-0044Tapered Alumina Injector 1.8mm
31-807-0045Tapered Alumina Injector 2.0mm
31-807-0060

Sapphire Injector 2.0mm 31-808-2803

Platinum Injector 2.0mm 31-808-2972

These injectors are suitable for torch adaptor 31-808-0827 (equivalent PerkinElmer P/N N8120116) or 31-808-2825 (equivalent PerkinElmer P/N W1013266).



Cones (continued)

Platinum Sampler

(PE p/n WE02-7802) PE2013-Pt

**Platinum Skimmer**

(PE p/n WE02-7803) PE2014-Pt

**Insertion Tool**

(PE p/n WE01-7142) PE6000

Sampler Cone O-Ring (PKT 5)

(PE p/n N812-0511) PE5011

**Skimmer Cone O-Ring (PKT 5)**

(PE p/n N812-0512) PE5012



RF Coils

RF Coil for Elan 6000/9000 Series

Silver 70-900-2006S

**RF Coil for Elan 6000/9000 Series**

Copper 70-900-2006C

**Installation Kit for Elan 6000/9000**

RF Coil Installation Kit 70-900-2006T



Cones

Nickel Sampler

(PE p/n WE02-1140) PE2011-Ni

**Nickel Skimmer**

(PE p/n WE02-1137) PE2012-Ni



APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Clinical and forensic materials, Drinking, ground and surface water, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		PE3011-Ni Nickel Sampler Cone for NexION	
KT-1096 IsoMist Kit for PerkinElmer NexION		PE3012-Ni Nickel Skimmer Cone for NexION	
30-807-0540 D-Torch with Quartz Outer Tube for Elan/ NexION		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
31-808-0806 Tapered Quartz Injector with ball joint 2mm (suitable for Elan DRC/NexION)		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
70-900-2006C RF Coil Copper for PE Elan/NexION		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-2006T RF Coil Installation Tool for PE Elan/NexION		60-808-1185 Trident Internal Standard Kit	

Brines and salts

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		PE3014-Pt Platinum Skimmer Cone for NexION	
KT-1096 IsoMist Kit for PerkinElmer NexION		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
30-807-0540 D-Torch with Quartz Outer Tube for Elan/ NexION		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-2849 Ceramic Outer Tube for D-Torch		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
31-808-0806 Tapered Quartz Injector with ball joint 2mm (suitable for Elan DRC/NexION)		60-808-1185 Trident Internal Standard Kit	
70-900-2006C RF Coil Copper for PE Elan/NexION		70-803-0570 Capricorn Argon Humidifier with bypass for PerkinElmer models	
70-900-2006T RF Coil Installation Tool for PE Elan/NexION			
PE3013-Pt Platinum Sampler Cone for NexION			

Geological with HF, Soil and sediment with HF

ARG-1-PFA04

OpalMist Nebulizer 0.4mL/min



KT-1096P

IsoMist Kit with PFA Spray Chamber for PerkinElmer NexION



30-807-0540

D-Torch with Quartz Outer Tube for Elan/NexION



31-808-2849

Ceramic Outer Tube for D-Torch



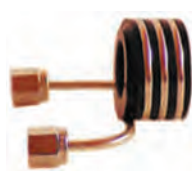
31-807-0060

Tapered Alumina Injector 2.0mm



70-900-2006C

RF Coil Copper for PE Elan/NexION



70-900-2006T

RF Coil Installation Tool for PE Elan/NexION



PE3013-Pt

Platinum Sampler Cone for NexION



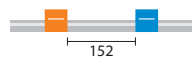
PE3014-Pt

Platinum Skimmer Cone for NexION



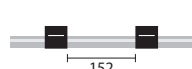
0.25-OB-F

Contour Flared End PVC Pump Tube 2tag
0.25mm ID Orange/Blue (PKT 6)



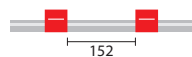
0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



60-808-1150

Trident Internal Standard Kit for HF solutions



Isotopic Analysis of Minerals

ARG-1-USS04

SeaSpray U-Series Nebulizer 0.4mL/min



KT-1096

IsoMist Kit for PerkinElmer NexION



30-807-0540

D-Torch with Quartz Outer Tube for Elan/NexION



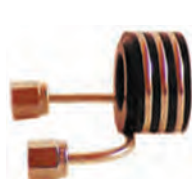
31-808-0806

Tapered Quartz Injector with ball joint 2mm
(suitable for Elan DRC/NexION)



70-900-2006C

RF Coil Copper for PE Elan/NexION



70-900-2006T

RF Coil Installation Tool for PE Elan/NexION



PE3013-Pt

Platinum Sampler Cone for NexION



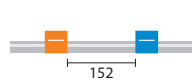
PE3014-Pt

Platinum Skimmer Cone for NexION



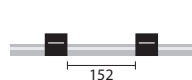
0.25-OB-F

Contour Flared End PVC Pump Tube 2tag
0.25mm ID Orange/Blue (PKT 6)



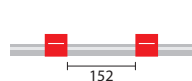
0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



60-808-1185

Trident Internal Standard Kit



APPLICATION PACKAGES

Petrochemicals			
ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		PE3011-Ni Nickel Sampler Cone for NexION	
KT-1096 IsoMist Kit for PerkinElmer NexION		PE3012-Ni Nickel Skimmer Cone for NexION	
30-807-0540 D-Torch with Quartz Outer Tube for Elan/ NexION		0.25-OB-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
31-808-2849 Ceramic Outer Tube for D-Torch		0.76-BLK-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-3125 Tapered Quartz Injector with ball joint 0.85mm (suitable for Elan DRC/NexION)		1.14-RED-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-2006C RF Coil Copper for PE Elan/NexION		60-808-1185 Trident Internal Standard Kit	
70-900-2006T RF Coil Installation Tool for PE Elan/NexION			

Semiconductors			
ARG-1-PFA04 OpalMist Nebulizer 0.4mL/min		PE3013-Pt Platinum Sampler Cone for NexION	
KT-1096P IsoMist Kit with PFA Spray Chamber for PerkinElmer NexION		PE3014-Pt Platinum Skimmer Cone for NexION	
30-807-0540 D-Torch with Quartz Outer Tube for Elan/ NexION		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
31-808-2849 Ceramic Outer Tube for D-Torch		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-2803 Sapphire Injector 2.0mm		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-2006C RF Coil Copper for PE Elan/NexION		60-808-1185 Trident Internal Standard Kit	
70-900-2006T RF Coil Installation Tool for PE Elan/NexION			

PRODUCT LIST

Nebulizers

SeaSpray

400µL/min uptake ARG-1-USS04

MicroMist

400µL/min uptake ARG-1-UM04
200µL/min uptake ARG-1-UM02
100µL/min uptake ARG-1-UM01
50µL/min uptake ARG-1-UM005

OpalMist

400µL/min uptake ARG-1-PFA04
200µL/min uptake ARG-1-PFA02
100µL/min uptake ARG-1-PFA01
50µL/min uptake ARG-1-PFA005



IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for PerkinElmer
NexION KT-1096



Spray Chambers

Twinnabar

20mL Cyclonic 20-809-0491HE

Suitable for adaptor 31-808-2825 and injectors without ball joint.



Torches

D-Torch with Quartz Outer Tube

30-807-0540

Comprises:

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



Ceramic Outer Tube for D-Torch

31-808-2849



Quartz Torch

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



Torches (continued)

Quartz Injectors (non DRC)

Tapered Quartz Injector 1.0mm 31-808-0370
Tapered Quartz Injector 1.2mm 31-808-0789
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 suitable for torch adaptor 31-808-2825 (equivalent PerkinElmer P/N W1013266).



Quartz Injectors (DRC Versions)

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

These injectors are suitable for torch adaptor 31-808-2824 (equivalent PerkinElmer P/N W1012406).



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.



HF Resistant Injectors

Tapered Alumina Injector 1.5mm 31-807-0044
Tapered Alumina Injector 1.8mm 31-807-0045
Tapered Alumina Injector 2.0mm 31-807-0060
Sapphire Injector 2.0mm 31-808-2803
Platinum Injector 2.0mm 31-808-2972

These injectors are suitable for torch adaptor 31-808-2825 (equivalent PerkinElmer P/N W1013266).



PRODUCT LIST

Cones

Nickel Sampler (PE p/n W1033612)	PE3011-Ni	
Nickel Skimmer (PE p/n W1026356)	PE3012-Ni	
Platinum Sampler (PE p/n W1033614)	PE3013-Pt	
Platinum Skimmer (PE p/n W1026907)	PE3014-Pt	
Hyper Skimmer (PE p/n W1033995)	PE3015-Al	

RF Coils




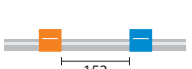

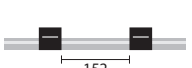






RF Coil for Elan/NexION Copper	70-900-2006C	
Installation Kit for Elan/NexION RF Coil Installation Kit	70-900-2006T	

APPLICATION PACKAGES




Animal feed, Chemicals and fertilizers, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-2003T RF Coil Installation Tool	
20-809-0434HE Tracey Spray Chamber with Helix		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
30-808-2926 D-Torch for Optima 2/4/5/7000 DV (with Quartz Outer Tube)		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
31-807-0075 Tapered Quartz Injector 2.0mm		60-808-1185 Trident Internal Standard Kit	
70-900-2003S RF Coil Silver			


Brines and salts

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-2003T RF Coil Installation Tool	
20-809-0208HE Twister Spray Chamber with Helix		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
30-808-2926 D-Torch for Optima 2/4/5/7000 DV (with Quartz Outer Tube)		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
31-808-2506 Tapered Quartz Injector 3.0mm		60-808-1185 Trident Internal Standard Kit	
70-900-2003G RF Coil Gold		70-803-0570 Capricorn Argon Humidifier with bypass for PerkinElmer models	

Clinical and forensic materials

ARG-07-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		30-808-2926 D-Torch for Optima 2/4/5/7000 DV (with Quartz Outer Tube)	
20-809-0208HE Twister Spray Chamber with Helix		31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000	

Clinical and forensic materials (continued)

31-807-0075 Tapered Quartz Injector 2.0mm		0.38-OG-F Contour Flared End PVC Pump Tube 2tag 0.38mm ID Orange/Green (PKT 6)	
70-900-2003S RF Coil Silver		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
70-900-2003T RF Coil Installation Tool		60-808-1185 Trident Internal Standard Kit	
0.19-OR-F Contour Flared End PVC Pump Tube 2tag 0.19mm ID Orange/Red (PKT 6)			



Drinking, ground and surface water

ARG-07-UC2 Conikal U-Series Nebulizer 2mL/min		31-807-0075 Tapered Quartz Injector 2.0mm	
20-809-0434HE Tracey Spray Chamber with Helix		70-900-2003S RF Coil Silver	
30-808-2926 D-Torch for Optima 2/4/5/7000 DV (with Quartz Outer Tube)		70-900-2003T RF Coil Installation Tool	
31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	



Geological with HF, Soil and sediment with HF




ARG-07-DM1 DuraMist Nebulizer 1mL/min		70-900-2003G RF Coil Gold	
20-809-2510 Tracey TFE Spray Chamber with Helix		70-900-2003T RF Coil Installation Tool	
30-808-2926 D-Torch for Optima 2/4/5/7000 DV (with Quartz Outer Tube)		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-1210 Tapered Alumina Injector 2.0mm		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
		60-808-1150 Trident Internal Standard Kit for HF solutions	

APPLICATION PACKAGES

Petrochemicals			
ARG-07-UM06 MicroMist U-Series Nebulizer 0.6mL/min		31-808-0939 Capillary Quartz Injector 1.0mm	
KT-1012 IsoMist Kit for PerkinElmer Optima 2000/4000/5000/7000 DV		70-900-2003S RF Coil Silver	
30-808-2926 D-Torch for Optima 2/4/5/7000 DV (with Quartz Outer Tube)		70-900-2003T RF Coil Installation Tool	
31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000		0.76-BLK-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
		1.14-RED-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
Wear Metals in oil			
ARG-07-US6 Slurry U-Series Nebulizer 4mL/min		31-808-1154 Tapered Quartz Injector 1.2mm	
20-809-0446HE Twister Spray Chamber with Helix (Organics)		70-900-2003S RF Coil Silver	
30-808-2926 D-Torch for Optima 2/4/5/7000 DV (with Quartz Outer Tube)		70-900-2003T RF Coil Installation Tool	
31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000		0.76-BLK-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
		1.14-RED-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

PRODUCT LIST

Nebulizers		
Conikal		
2mL/min uptake	ARG-07-UC2	
SeaSpray		
2mL/min uptake	ARG-07-USS2	
Slurry		
4mL/min uptake	ARG-07-US6	
MicroMist		
600µL/min uptake	ARG-07-UM06	
200µL/min uptake	ARG-07-UM02	
100µL/min uptake	ARG-07-UM01	
50µL/min uptake	ARG-07-UM005	

Nebulizers (continued)		
OpalMist		
2mL/min uptake	ARG-07-PFA2	
600µL/min uptake	ARG-07-PFA06	
200µL/min uptake	ARG-07-PFA02	
100µL/min uptake	ARG-07-PFA01	
50µL/min uptake	ARG-07-PFA005	
DuraMist		
1mL/min uptake	ARG-07-DM1	
400µL/min uptake	ARG-07-DM04	
VeeSpray - Ceramic		
Standard	ARG-07-CV6	

PRODUCT LIST

IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for PerkinElmer
Optima 2000/4000/
5000/7000DV KT-1012



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
with Aux. port 20-809-0004HE



Cinnabar

20mL Cyclonic 20-809-9121HE



Twinnabar

20mL Cyclonic 20-809-9120HE



Tracey TFE

50mL Cyclonic 20-809-2510
Suitable for use with HF.
Plugs directly into cassette mount.



Torches

D-Torch with Quartz Outer Tube

30-808-2926

Comprises:

Base and Inner Tube 31-808-2981
Quartz Outer Tube 31-808-2986
Retaining Ring 31-808-2818



Quartz Torches

Quartz Torch -
JAZ with single slot 30-808-0845
Quartz Torch
without slot 30-808-1122
Quartz Torch (short)
without slot 30-808-0845S
Quartz Torch
with 3 slots 30-808-1470



Quartz Injectors

Quartz Capillary Injector
1.0mm 31-808-0939
Quartz Tapered Injector
1.2mm 31-808-1154
Quartz Capillary Injector
1.8mm 31-808-0794
Quartz Tapered Injector
2.0mm 31-807-0075
Quartz Tapered Injector
3.0mm 31-808-2506



HF Resistant Injectors

Tapered Alumina Injector
2.0mm 31-808-1210
Tapered Alumina Injector
2.4mm 31-808-2771
Sapphire Injector
2.0mm 31-808-2774



Torch Bonnet 2000/4000/5000/7000

31-800-0018



Radial Purge Window Short (32mm) for 2000DV or 3300DV

31-808-8098



Axial Purge Window (17mm disk) for 4000/5000/7000DV

31-808-0551



Radial Purge Window for 4000/5000DV (Pre Nov. 2004)

31-800-0024



Radial Purge Window for 2000DV, Long

31-808-2631



PRODUCT LIST

Torches (continued)		
Axial Purge Window for 2000DV or 3000XL (32mm disk)		
31-808-2649		
Copper Foil for Torch Body (PKT 10)		
31-808-2645		
Radial Purge Window for 5000/7000DV (Post Nov. 2004)		
31-808-2788		

RF Coils		
RF Coil		
Gold	70-900-2003G	
RF Coil		
Silver	70-900-2003S	
Installation Kit		
	70-900-2003T	

APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		31-807-0050 Tapered Quartz Injector 2.0mm	
20-809-0495HE Twister Spray Chamber with Helix		70-900-2003S RF Coil Silver	
30-808-2832 D-Torch for Optima 4300/5300/7300V (with Quartz Outer Tube)		70-900-2003T RF Coil Installation Tool	
31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

Brines and salts

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-2003G RF Coil Gold	
20-809-0495HE Twister Spray Chamber with Helix		70-900-2003T RF Coil Installation Tool	
30-808-2832 D-Torch for Optima 4300/5300/7300V (with Quartz Outer Tube)		0.76-BLK-F Contour Flared End PVC Pump Tube 2tag 0.76mm ID Black/Black (PKT 6)	
31-808-2815 Ceramic Outer Tube for D-Torch, Optima 4300/5300/7300V		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000		70-803-0570 Capricorn Argon Humidifier with bypass for PerkinElmer models	
31-807-0050 Tapered Quartz Injector 2.0mm			

Clinical and forensic materials

ARG-07-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		31-800-0018 Quartz Torch Bonnet for Optima 2000/4000/5000/7000	
20-809-0495HE Twister Spray Chamber with Helix		31-807-0050 Tapered Quartz Injector 2.0mm	
30-808-2832 D-Torch for Optima 4300/5300/7300V (with Quartz Outer Tube)		70-900-2003S RF Coil Silver	
		70-900-2003T RF Coil Installation Tool	

APPLICATION PACKAGES

Clinical and forensic materials (continued)

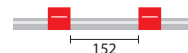
0.38-OG-F

Contour Flared End PVC Pump Tube 2tag
0.38mm ID Orange/Green (PKT 6)



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



Drinking, ground and surface water

ARG-07-UC2

Conikal U-Series Nebulizer 2mL/min



31-807-0050

Tapered Quartz Injector 2.0mm



20-809-0495HE

Twister Spray Chamber with Helix



70-900-2003S

RF Coil Silver



70-900-2003T

RF Coil Installation Tool



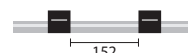
30-808-2832

D-Torch for Optima 4300/5300/7300V
(with Quartz Outer Tube)



0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



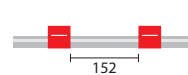
31-800-0018

Quartz Torch Bonnet for Optima
2000/4000/5000/7000



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



Geological with HF, Soil and sediment with HF

ARG-07-DM1

DuraMist Nebulizer 1mL/min



31-808-1352

Tapered Alumina Injector 2.0mm



20-809-2507

Tracey TFE Spray Chamber with Helix



70-900-2003G

RF Coil Gold



70-900-2003T

RF Coil Installation Tool



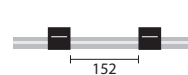
30-808-2832

D-Torch for Optima 4300/5300/7300V
(with Quartz Outer Tube)



0.76-BLK-F

Contour Flared End PVC Pump Tube 2tag
0.76mm ID Black/Black (PKT 6)



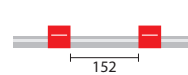
31-808-2815

Ceramic Outer Tube for D-Torch, Optima
4300/5300/7300V



1.14-RED-F

Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)



Petrochemicals

ARG-07-UM06

MicroMist U-Series Nebulizer 0.6mL/min



31-808-2815

Ceramic Outer Tube for D-Torch, Optima
4300/5300/7300V



KT-1011

IsoMist Kit for PerkinElmer Optima
4300/5300/7300V



31-808-0119

Tapered Quartz Injector 1.0mm



70-900-2003S

RF Coil Silver



30-808-2832

D-Torch for Optima 4300/5300/7300V
(with Quartz Outer Tube)



70-900-2003T

RF Coil Installation Tool



Petrochemicals (continued)

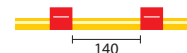
0.76-BLK-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 0.76mm ID Black/Black (PKT 6)



1.14-RED-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 1.14mm ID Red/Red (PKT 6)



Wear Metals in oil

ARG-07-US6

Slurry U-Series Nebulizer 4mL/min



31-808-0119

Tapered Quartz Injector 1.0mm



20-809-0495HE

Twister Spray Chamber with Helix



70-900-2003S

RF Coil Silver



70-900-2003T

RF Coil Installation Tool



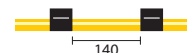
30-808-2832

D-Torch for Optima 4300/5300/7300V
(with Quartz Outer Tube)



0.76-BLK-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 0.76mm ID Black/Black (PKT 6)



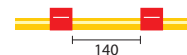
31-808-2815

Ceramic Outer Tube for D-Torch, Optima
4300/5300/7300V



1.14-RED-SF-F

Contour Flared End Solva Flex Pump Tube
2tag 1.14mm ID Red/Red (PKT 6)



PRODUCT LIST

Nebulizers

Conikal

2mL/min uptake ARG-07-UC2

SeaSpray

2mL/min uptake ARG-07-USS2

Slurry

4mL/min uptake ARG-07-US6

MicroMist

600µL/min uptake ARG-07-UM06

200µL/min uptake ARG-07-UM02

100µL/min uptake ARG-07-UM01

50µL/min uptake ARG-07-UM005

OpalMist

2mL/min uptake ARG-07-PFA2

600µL/min uptake ARG-07-PFA06

200µL/min uptake ARG-07-PFA02

100µL/min uptake ARG-07-PFA01

50µL/min uptake ARG-07-PFA005

DuraMist

1mL/min uptake ARG-07-DM1

400µL/min uptake ARG-07-DM04

VeeSpray - Ceramic

Standard ARG-07-CV6



IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for PerkinElmer
Optima 4300/5300/7300V KT-1011



Spray Chambers

Twister

50mL Cyclonic 20-809-0495HE











Tracey TFE

50mL Cyclonic 20-809-2507

Suitable for use with HF.



PRODUCT LIST

Torches		
D-Torch Demountable Torch		
D-Torch for 4300/5300/7300V	30-808-2832	
Comprises:		
Base and Inner Tube	31-808-2809	
Quartz Outer Tube	31-808-2821	
Retaining Ring	31-808-2818	
Quartz Torch		
Quartz Torch - three slot	30-807-0064	
Quartz Injectors		
Tapered Quartz Injector 1.0mm	31-808-0119	
Tapered Quartz Injector 1.5mm	31-808-0124	
Tapered Quartz Injector 1.8mm	31-807-0008	
Tapered Quartz Injector 2.0mm	31-807-0050	
These injectors are suitable for both the fixed torch and D-Torch.		
HF Resistant Injectors		
Tapered Alumina Injector 1.5mm	31-807-0051	
Tapered Alumina Injector 1.8mm	31-807-0052	
Tapered Alumina Injector 2.0mm	31-808-1352	
Capillary Alumina Injector 2.0mm	31-808-2625	
These injectors are suitable for both the fixed torch and D-torch.		
Torch Bonnet		
	31-800-0018	
Purge Extension Window for 4300/5300/7300V		
	31-808-1345	
Torch Adaptor with Auxiliary Port		
	31-808-2503	
Option for D-Torch		
Ceramic Outer Tube	31-808-2815	

RF Coils		
RF Coil		
Gold	70-900-2003G	
RF Coil		
Silver	70-900-2003S	
Installation Kit		
	70-900-2003T	

APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Drinking, ground and surface water, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-1-USS2 SeaSpray U-Series Nebulizer 2mL/min		21-808-8214 Drain Device	
20-808-8881HE Tracey Spray Chamber with B14 Drain with Helix		30-807-0534 Quartz Mini Torch for Shimadzu ICPE-9000	
		30-808-1179 Standard Quartz Torch, 1.5mm injector for Shimadzu ICPS-7500/8100	






Brines and salts

ARG-1-USS2 SeaSpray U-Series Nebulizer 2mL/min		30-807-0518 Quartz Torch ICPS-7500/8100/9000, 1.8mm injector for High TDS for Shimadzu	
20-809-9119HE Twister Spray Chamber with B14 Drain with Helix		70-808-1226 Capricorn Argon Humidifier with bypass	
21-808-8214 Drain Device			

Clinical and forensic materials

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		21-808-8214 Drain Device	
20-809-9119HE Twister Spray Chamber with B14 Drain with Helix		30-807-0518 Quartz Torch ICPS-7500/8100/9000, 1.8mm injector for High TDS for Shimadzu	

Geological with HF, Soil and sediment with HF

ARG-1-DM1 DuraMist Nebulizer 1mL/min		21-809-2540 HF Drain Device	
20-809-2508 Tracey TFE Spray Chamber with B14 Drain and Helix		21-809-2839 Mounting Bracket for HF Spray Chamber	
		30-808-8039 Semi Demountable Torch with Alumina Injector for Shimadzu 7500/8100	

Petrochemicals

ARG-1-UM04

MicroMist U-Series Nebulizer 0.4mL/min



30-807-0519

Quartz Torch ICPS-7500/8100/9000,
1.0mm injector for Organics for Shimadzu

KT-1067

IsoMist Kit for Shimadzu



Wear Metals in oil

ARG-1-US6

Slurry U-Series Nebulizer 4mL/min



21-808-8214

Drain Device



20-809-9119HE

Twister Spray Chamber with B14 Drain
with Helix

30-807-0519

Quartz Torch ICPS-7500/8100/9000,
1.0mm injector for Organics for Shimadzu

PRODUCT LIST

Nebulizers

Conikal

1mL/min uptake

ARG-1-UC1

SeaSpray

2mL/min uptake

ARG-1-USS2

Slurry

4mL/min uptake

ARG-1-US6



MicroMist

400µL/min uptake

ARG-1-UM04

200µL/min uptake

ARG-1-UM02

100µL/min uptake

ARG-1-UM01

50µL/min uptake

ARG-1-UM005

OpalMist

2mL/min uptake

ARG-1-PFA2

400µL/min uptake

ARG-1-PFA04

200µL/min uptake

ARG-1-PFA02

100µL/min uptake

ARG-1-PFA01

50µL/min uptake

ARG-1-PFA005



DuraMist

1mL/min uptake

ARG-1-DM1

400µL/min uptake

ARG-1-DM04



VeeSpray - Ceramic

Standard

ARG-1-CV6



IsoMist

IsoMist Programmable
Temperature Spray Chamber

IsoMist Kit Shimadzu KT-1067



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



PRODUCT LIST

Spray Chambers (continued)		
Cinnabar 20mL Cyclonic	20-809-0164HE	
Drain Device	21-808-8214	
Tracey TFE 50mL Cyclonic	20-809-2506	
Suitable for use with HF.		
Tracey TFE 50mL Cyclonic	20-809-2508	
With B14 gravity drain. Suitable for use with HF.		
HF Drain Device	21-809-2540	
Glass Transfer Tube, Spray Chamber to ICP-9000	21-809-2846	
Mounting bracket for HF Spray Chamber	21-809-2839	

Torches (continued)		
HF Resistant Injectors		
Tapered Alumina Injector 1.5mm	31-808-0013	
Tapered Alumina Injector 1.8mm	31-808-0015	
Quartz Torches		
Quartz Torch Standard 1.5mm Injector (Suitable for ICPS-7500/8100)	30-808-1179	
Quartz Torch for Organics, 1.0mm Injector (Suitable for ICPS-7500/8100/9000)	30-807-0519	
Quartz Torch for High TDS, 1.8mm Injector (Suitable for ICPS-7500/8100/9000)	30-807-0518	
Quartz Torches		
Quartz Torch 1.2mm Injector (Suitable for ICPM-8500)	30-808-9986	
Quartz Torch 1.5mm Injector(Suitable for ICPM-8500)	30-808-1090	
Quartz Torches		
Quartz Torch L Shape (Suitable for ICPS-7000)	30-808-1091	
Quartz Torches		
Quartz Mini Torch (Suitable for ICPE-9000)	30-807-0534	

Torches		
Semi Demountable Torch (HF)	30-808-8039	
Comprises:		
Semi Demountable Torch Body	31-808-1258	
Semi Demountable Torch Adaptor	31-808-1260	
Tapered Alumina Injector 1.5mm	31-808-0013	
Joint Clip B14-Nickel	KCM-14	
GazFit Connectors (PKT 4) for 4mm OD side arms	GAZ-04	

Tools and connectors to make life easier for the ICP operator



UniFit Connector – connects the sample tube to the nebulizer



GazFit Connectors – connect argon lines or sample line to the torch



Spray chamber drain connector



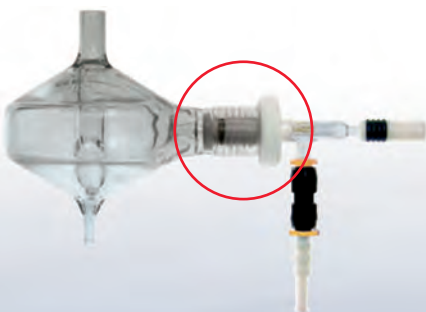
Reagent Tube with PTFE Sinkers
(P/N 70-803-0752)



EzyLok Kit – connects the argon line to the nebulizer



O-Ring Removal Tool



Helix interface between nebulizer and spray chamber



Fluka RBS-25 Cleaning Solution
(P/N FLUKA25)




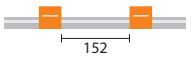





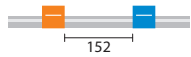
Eluo Nebulizer Cleaning Tool

APPLICATION PACKAGES


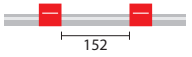

Animal feed, Chemicals and fertilizers, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
20-809-0439HE Tracey Spray Chamber with Helix (Long Neck)		0.89-ORG-F Contour Flared End PVC Pump Tube 2tag 0.89mm ID Orange/Orange (PKT 6)	
		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
30-808-0317 Quartz Torch 2.5mm injector, 4mm OD side arms for Spectro EOP		60-808-1185 Trident Internal Standard Kit	

Brines and salts

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		0.89-ORG-F Contour Flared End PVC Pump Tube 2tag 0.89mm ID Orange/Orange (PKT 6)	
20-809-0243HE Twister Spray Chamber with Long Neck and Helix		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
		60-808-1185 Trident Internal Standard Kit	
30-808-0317 Quartz Torch 2.5mm injector, 4mm OD side arms for Spectro EOP		70-803-0518 Capricorn Argon Humidifier with bypass for Spectro	
0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)			

Clinical and forensic materials

ARG-07-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		0.19-OR-F Contour Flared End PVC Pump Tube 2tag 0.19mm ID Orange/Red (PKT 6)	
20-809-0243HE Twister Spray Chamber with Long Neck and Helix		0.44-GY-F Contour Flared End PVC Pump Tube 2tag 0.44mm ID Green/Yellow (PKT 6)	
		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
30-808-0317 Quartz Torch 2.5mm injector, 4mm OD side arms for Spectro EOP		60-808-1185 Trident Internal Standard Kit	

Drinking, ground and surface water

ARG-07-UC2

Conikal U-Series Nebulizer 2mL/min

**30-808-0317**

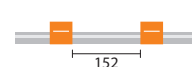
Quartz Torch 2.5mm injector, 4mm OD side arms for Spectro EOP

**20-809-0439HE**

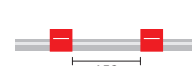
Tracey Spray Chamber with Helix (Long Neck)

**0.89-ORG-F**

Contour Flared End PVC Pump Tube 2tag 0.89mm ID Orange/Orange (PKT 6)

**1.14-RED-F**

Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)



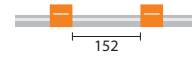
Geological with HF, Soil and sediment with HF

ARG-07-DM1

DuraMist Nebulizer 1mL/min

**0.89-ORG-F**

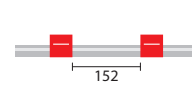
Contour Flared End PVC Pump Tube 2tag 0.89mm ID Orange/Orange (PKT 6)

**20-809-2506**

Tracey TFE Spray Chamber with Helix

**1.14-RED-F**

Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)

**21-809-2582**

PuraFlex Transfer Tube

**30-808-1467**

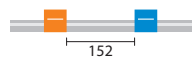
Semi Demountable Torch for Spectro EOP

**60-808-1150**

Trident Internal Standard Kit for HF solutions

**0.25-OB-F**

Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)



Petrochemicals

ARG-07-UM06

MicroMist U-Series Nebulizer 0.6mL/min

**30-808-8005**

Quartz Torch 1.8mm injector for Spectro EOP

**KT-1029**

IsoMist Basic Kit EROL

**0.89-ORG-SF-F**

Contour Flared End Solva Flex Pump Tube 2tag 0.89mm ID Orange/Orange (PKT 6)

**1.14-RED-SF-F**

Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)



Wear Metals in oil

ARG-07-US6

Slurry U-Series Nebulizer 4mL/min

**30-808-8005**

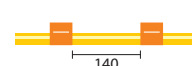
Quartz Torch 1.8mm injector for Spectro EOP

**20-809-0243HE**

Twister Spray Chamber with Long Neck and Helix

**0.89-ORG-SF-F**

Contour Flared End Solva Flex Pump Tube 2tag 0.89mm ID Orange/Orange (PKT 6)

**1.14-RED-SF-F**

Contour Flared End Solva Flex Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)



PRODUCT LIST

Nebulizers

Conikal

2mL/min uptake ARG-07-UC2

SeaSpray

2mL/min uptake ARG-07-USS2

Slurry

4mL/min uptake ARG-07-US6

MicroMist

600µL/min uptake ARG-07-UM06

200µL/min uptake ARG-07-UM02

100µL/min uptake ARG-07-UM01

50µL/min uptake ARG-07-UM005

OpalMist

2mL/min uptake ARG-07-PFA2

600µL/min uptake ARG-07-PFA06

200µL/min uptake ARG-07-PFA02

100µL/min uptake ARG-07-PFA01

50µL/min uptake ARG-07-PFA005

DuraMist

1mL/min uptake ARG-07-DM1

400µL/min uptake ARG-07-DM04

VeeSpray - Ceramic

Standard ARG-07-CV6



IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit EROL KT-1029



Spray Chambers

Tracey

50mL Cyclonic 20-809-0439HE



Twister

50mL Cyclonic 20-809-0243HE



Spray Chambers (continued)

Tracey TFE

50mL Cyclonic 20-809-2506

Suitable for use with HF.
Requires Transfer Tube 21-809-2582.



PuraFlex Transfer Tube

21-809-2582



Torches

Quartz Torches

EOP Quartz Torch with 2.5mm Injector 30-808-0317



Quartz Torches

EOP Fixed Sheath Gas Torch with 3.0mm Injector 30-808-1165



Quartz Torches

EOP Quartz Torch with 1.8mm Injector 30-808-8005



Semi Demountable Torch (HF)

Semi Demountable Torch for Spectro EOP 30-808-1467

Comprises:

SDT Quartz Torch Body 31-808-1458

Tapered Alumina Injector 2.4mm 31-808-1195

SDT Adaptor 31-808-1459



APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		31-808-2974 Tapered Quartz Injector 1.8mm for Spectro Radial D-Torch	
20-808-8882HE Tracey Spray Chamber with Helix		31-800-1008 Quartz Bonnet	
		0.89-ORG-F Contour Flared End PVC Pump Tube 2tag 0.89mm ID Orange/Orange (PKT 6)	
30-808-2928 D-Torch for Spectro Radial (without injector)		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

Brines and salts

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		31-800-1008 Quartz Bonnet	
20-809-0222HE Twister Spray Chamber with Helix		0.89-ORG-F Contour Flared End PVC Pump Tube 2tag 0.89mm ID Orange/Orange (PKT 6)	
30-808-2928 D-Torch for Spectro Radial (without injector)		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	
31-808-2973 Ceramic Outer Tube for Spectro Radial D-Torch		70-803-0518 Capricorn Argon Humidifier with bypass for Spectro	
31-808-2974 Tapered Quartz Injector 1.8mm for Spectro Radial D-Torch			

Clinical and forensic materials

ARG-07-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		31-808-2974 Tapered Quartz Injector 1.8mm for Spectro Radial D-Torch	
20-809-0222HE Twister Spray Chamber with Helix		31-800-1008 Quartz Bonnet	
		0.44-GY-F Contour Flared End PVC Pump Tube 2tag 0.44mm ID Green/Yellow (PKT 6)	
30-808-2928 D-Torch for Spectro Radial (without injector)		1.14-RED-F Contour Flared End PVC Pump Tube 2tag 1.14mm ID Red/Red (PKT 6)	

Drinking, ground and surface water

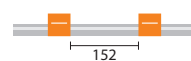
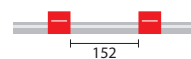
ARG-07-UC2 Conikal U-Series Nebulizer 2mL/min		20-808-8882HE Tracey Spray Chamber with Helix	
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APPLICATION PACKAGES

Drinking, ground and surface water (continued)

30-808-2928

D-Torch for Spectro Radial (without injector)

**0.89-ORG-F**Contour Flared End PVC Pump Tube 2tag
0.89mm ID Orange/Orange (PKT 6)**31-808-2974**Tapered Quartz Injector 1.8mm for Spectro
Radial D-Torch**1.14-RED-F**Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)**31-800-1008**

Quartz Bonnet



Geological with HF, Soil and sediment with HF

ARG-07-DM1

DuraMist Nebulizer 1mL/min

**31-808-2963**Tapered Alumina Injector 1.8mm for Spectro
Radial D-Torch**20-809-2506**

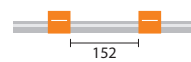
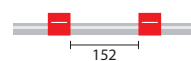
Tracey TFE Spray Chamber with Helix

**31-800-1008**

Quartz Bonnet

**30-808-2928**

D-Torch for Spectro Radial (without injector)

**0.89-ORG-F**Contour Flared End PVC Pump Tube 2tag
0.89mm ID Orange/Orange (PKT 6)**31-808-2973**Ceramic Outer Tube for Spectro Radial
D-Torch**1.14-RED-F**Contour Flared End PVC Pump Tube 2tag
1.14mm ID Red/Red (PKT 6)

Petrochemicals

ARG-07-UM06

MicroMist U-Series Nebulizer 0.6mL/min

**31-808-2974**Tapered Quartz Injector 1.8mm for Spectro
Radial D-Torch**KT-1029**

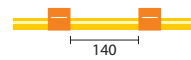
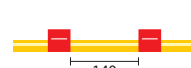
IsoMist Basic Kit EROL

**31-800-1008**

Quartz Bonnet

**30-808-2928**

D-Torch for Spectro Radial (without injector)

**0.89-ORG-SF-F**Contour Flared End Solva Flex Pump Tube
2tag 0.89mm ID Orange/Orange (PKT 6)**31-808-2973**Ceramic Outer Tube for Spectro Radial
D-Torch**1.14-RED-SF-F**Contour Flared End Solva Flex Pump Tube
2tag 1.14mm ID Red/Red (PKT 6)

Wear Metals in oil

ARG-07-US6

Slurry U-Series Nebulizer 4mL/min

**31-808-2974**Tapered Quartz Injector 1.8mm for Spectro
Radial D-Torch**20-809-0222HE**

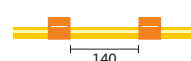
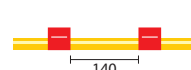
Twister Spray Chamber with Helix

**31-800-1008**

Quartz Bonnet

**30-808-2928**

D-Torch for Spectro Radial (without injector)

**0.89-ORG-SF-F**Contour Flared End Solva Flex Pump Tube
2tag 0.89mm ID Orange/Orange (PKT 6)**31-808-2973**Ceramic Outer Tube for Spectro Radial
D-Torch**1.14-RED-SF-F**Contour Flared End Solva Flex Pump Tube
2tag 1.14mm ID Red/Red (PKT 6)

PRODUCT LIST

Nebulizers

Conikal	
2mL/min uptake	ARG-07-UC2
SeaSpray	
2mL/min uptake	ARG-07-USS2
Slurry	
4mL/min uptake	ARG-07-US6
MicroMist	
600µL/min uptake	ARG-07-UM06
200µL/min uptake	ARG-07-UM02
100µL/min uptake	ARG-07-UM01
50µL/min uptake	ARG-07-UM005



OpalMist	
2mL/min uptake	ARG-07-PFA2
600µL/min uptake	ARG-07-PFA06
200µL/min uptake	ARG-07-PFA02
100µL/min uptake	ARG-07-PFA01
50µL/min uptake	ARG-07-PFA005



DuraMist	
1mL/min uptake	ARG-07-DM1
400µL/min uptake	ARG-07-DM04



VeeSpray - Ceramic	
Standard	ARG-07-CV6



IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit EROL	KT-1029
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Spray Chambers

Tracey	
50mL Cyclonic	20-808-8882HE



Twister	
50mL Cyclonic	20-809-0222HE



Cinnabar	
20mL Cyclonic	20-809-0164HE



Spray Chambers (continued)

Tracey TFE	
50mL Cyclonic	20-809-2506
Suitable for use with HF.	



Torches

D-Torch	30-808-2928
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Comprises:

Base and Inner Tube	31-808-2942
Quartz Outer Tube	31-808-2939
Injector Adaptor	31-808-3177
Injector Ferrule	31-808-2962
Retaining Ring	31-808-2818



D-Torch Options	
Tapered Quartz Injector 1.8mm	31-808-2974



D-Torch Options	
Tapered Alumina Injector 1.8mm	31-808-2963



D-Torch Options	
Ceramic Outer Tube	31-808-2973



Quartz Torches	
Quartz Torch with 1.8mm Injector	30-808-0240
Quartz Torch with 1.0mm Injector	30-808-1202
Quartz Torch with 2.5mm Injector (with gas fittings)	30-807-0524



Semi Demountable Torch (HF)	30-807-0535
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Comprises:

Semi Demountable Torch Quartz Body	31-808-2795
Tapered Alumina Injector 1.8mm	31-808-2793
SDT Adaptor	31-808-2796

**Components for Spectro designed Semi-Demountable Torch**

Radial Demountable Torch Tube Assembly with 3 gas inlets	30-808-0488-3
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Quartz Injector for Spectro Demountable Torch 1.5mm	31-808-1203
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Quartz Injector for Spectro Demountable Torch 1.8mm	31-808-0071
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Quartz Injector for Spectro Demountable Torch 2.5mm	31-808-1204
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APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
20-809-2665HE Tracey Spray Chamber with Helix		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
30-808-2844 D-Torch for iCAP 6000 Duo (Quartz Outer Tube)		0.64-OW-F Contour Flared End PVC Pump Tube 2tag 0.64mm ID Orange/White (PKT 6)	
31-808-2836 Capillary Quartz Injector 2.0mm (EMT)		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	
70-900-4002S RF Coil Silver for Thermo iCAP 6000		60-808-1185 Trident Internal Standard Kit	

Brines and salts

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
20-809-2951HE Twister Spray Chamber with Helix		0.25-OB-F Contour Flared End PVC Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)	
30-808-2844 D-Torch for iCAP 6000 Duo (Quartz Outer Tube)		0.64-OW-F Contour Flared End PVC Pump Tube 2tag 0.64mm ID Orange/White (PKT 6)	
31-808-3079 Ceramic Outer Tube and Optic Fibre for iCAP 6000 Duo D-Torch		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	
31-808-2836 Capillary Quartz Injector 2.0mm (EMT)		60-808-1185 Trident Internal Standard Kit	
70-900-4002S RF Coil Silver for Thermo iCAP 6000		70-803-0634 Capricorn Argon Humidifier with bypass for Thermo iCAP 6000	

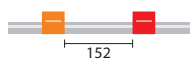
Clinical and forensic materials

ARG-07-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		31-808-2836 Capillary Quartz Injector 2.0mm (EMT)	
20-809-2951HE Twister Spray Chamber with Helix		70-900-4002S RF Coil Silver for Thermo iCAP 6000	
30-808-2844 D-Torch for iCAP 6000 Duo (Quartz Outer Tube)		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	

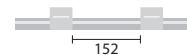
Clinical and forensic materials (continued)

0.19-OR-F

Contour Flared End PVC Pump Tube 2tag
0.19mm ID Orange/Red (PKT 6)

**1.02-WHT-F**

Contour Flared End PVC Pump Tube 2tag
1.02mm ID White/White (PKT 6)

**0.38-OG-F**

Contour Flared End PVC Pump Tube 2tag
0.38mm ID Orange/Green (PKT 6)

**60-808-1185**

Trident Internal Standard Kit



Drinking, ground and surface water

ARG-07-UC2

Conikal U-Series Nebulizer 2mL/min

**70-900-4002S**

RF Coil Silver for Thermo iCAP 6000

**20-809-2665HE**

Tracey Spray Chamber with Helix

**70-900-4002T**

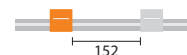
RF Coil Installation Tool for Thermo iCAP 6000

**30-808-2844**

D-Torch for iCAP 6000 Duo
(Quartz Outer Tube)

**0.64-OW-F**

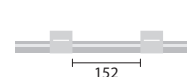
Contour Flared End PVC Pump Tube 2tag
0.64mm ID Orange/White (PKT 6)

**31-808-2836**

Capillary Quartz Injector 2.0mm (EMT)

**1.02-WHT-F**

Contour Flared End PVC Pump Tube 2tag
1.02mm ID White/White (PKT 6)



Geological with HF, Soil and sediment with HF

ARG-07-DM1

DuraMist Nebulizer 1mL/min

**70-900-4002S**

RF Coil Silver for Thermo iCAP 6000

**20-809-3469**

Tracey TFE Spray Chamber with Helix

**70-900-4002T**

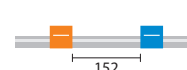
RF Coil Installation Tool for Thermo iCAP 6000

**30-808-2844**

D-Torch for iCAP 6000 Duo
(Quartz Outer Tube)

**0.25-OB-F**

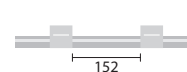
Contour Flared End PVC Pump Tube 2tag
0.25mm ID Orange/Blue (PKT 6)

**31-808-3079**

Ceramic Outer Tube and Optic Fibre
for iCAP 6000 Duo D-Torch

**1.02-WHT-F**

Contour Flared End PVC Pump Tube 2tag
1.02mm ID White/White (PKT 6)

**31-808-2835**

Alumina Injector 2.0mm (EMT)

**60-808-1150**

Trident Internal Standard Kit for HF solutions



Petrochemicals

ARG-07-UM06

MicroMist U-Series Nebulizer 0.6mL/min

**30-808-2844**

D-Torch for iCAP 6000 Duo
(Quartz Outer Tube)

**KT-1015**

IsoMist Kit for Thermo iCAP 6000 Duo

**31-808-3079**

Ceramic Outer Tube and Optic Fibre
for iCAP 6000 Duo D-Torch



APPLICATION PACKAGES

Petrochemicals (continued)

31-808-2833

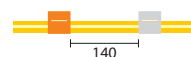
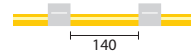
Tapered Quartz Injector 1.0mm (EMT)

**70-900-4002S**

RF Coil Silver for Thermo iCAP 6000

**70-900-4002T**

RF Coil Installation Tool for Thermo iCAP 6000

**0.64-OW-SF-F**Contour Flared End Solva Flex Pump Tube
2tag 0.64mm ID Orange/White (PKT 6)**1.02-WHT-SF-F**Contour Flared End Solva Flex Pump Tube
2tag 1.02mm ID White/White (PKT 6)

Wear Metals in oil

ARG-07-US6

Slurry U-Series Nebulizer 4mL/min

**20-809-2951HE**

Twister Spray Chamber with Helix

**30-808-2844**D-Torch for iCAP 6000 Duo
(Quartz Outer Tube)**31-808-3079**Ceramic Outer Tube and Optic Fibre
for iCAP 6000 Duo D-Torch**31-808-2833**

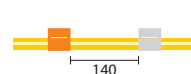
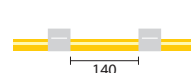
Tapered Quartz Injector 1.0mm (EMT)

**70-900-4002S**

RF Coil Silver for Thermo iCAP 6000

**70-900-4002T**

RF Coil Installation Tool for Thermo iCAP 6000

**0.64-OW-SF-F**Contour Flared End Solva Flex Pump Tube
2tag 0.64mm ID Orange/White (PKT 6)**1.02-WHT-SF-F**Contour Flared End Solva Flex Pump Tube
2tag 1.02mm ID White/White (PKT 6)

PRODUCT LIST

Nebulizers

Conikal

2mL/min uptake

ARG-07-UC2

SeaSpray

2mL/min uptake

ARG-07-USS2

Slurry

4mL/min uptake

ARG-07-US6

MicroMist

600µL/min uptake

ARG-07-UM06

200µL/min uptake

ARG-07-UM02

100µL/min uptake

ARG-07-UM01

50µL/min uptake

ARG-07-UM005

**OpalMist**

2mL/min uptake

ARG-07-PFA2

600µL/min uptake

ARG-07-PFA06

200µL/min uptake

ARG-07-PFA02

100µL/min uptake

ARG-07-PFA01

50µL/min uptake

ARG-07-PFA005



Nebulizers (continued)

DuraMist

1mL/min uptake

ARG-07-DM1

400µL/min uptake

ARG-07-DM04

**VeeSpray - Ceramic**

Standard

ARG-07-CV6



IsoMist

**IsoMist Programmable
Temperature Spray Chamber**IsoMist Kit for Thermo
iCAP 6000 Duo

KT-1015



Spray Chambers

Tracey

50mL Cyclonic

20-809-2665HE



PRODUCT LIST

Spray Chambers (continued)

Twister

50mL Cyclonic 20-809-2951HE

**Tracey TFE**

50mL Cyclonic (Suitable for HF) 20-809-3469

**Adaptor**

Right Angle With Ball Joint 21-809-2761



Torches

D-Torch Demountable Torch

D-Torch with Quartz Outer Tube 30-808-2844

Comprises:

Base and Inner Tube 31-808-2932

Quartz Outer Tube 31-808-2840

Retaining Ring 31-808-2707

Injector Adaptor 31-808-2895

Injector Ferrule 31-808-2897

**Injectors for D-Torch & EMT Torch**

Tapered Quartz Injector 1.0mm 31-808-2833

Tapered Quartz Injector 1.5mm 31-808-2834

Capillary Quartz Injector 2.0mm 31-808-2836

Alumina Injector 2.0mm 31-808-2835

**Ceramic Outer Tube and Optic Fibre for D-Torch**

31-808-3079

Comprises:

Ceramic Outer Tube 31-808-2863

Optic Fibre 170mm 31-808-2933

Optic Fibre 450mm 31-808-3117

**Quartz Torch**

EMT Design 31-808-2811

**Quartz Torch**

Old Design 31-808-2676

**Injectors for Old Design Torch**

Tapered Quartz Injector 1.0mm 31-808-2719

Tapered Quartz Injector 1.5mm 31-808-2702

Capillary Quartz Injector 2.0mm 31-808-2675



Torches (continued)

Tapered Alumina Injector 1.5mm 31-808-2787

Alumina Injector 2.0mm 31-808-2786

Sapphire Injector 2.0mm 31-808-2804

**Other Products**

Duo Periscope Window 31-808-2677



RF Coils

RF Coil

Gold, Teflon Coated 70-900-4002G

**RF Coil**

Silver, Teflon Coated 70-900-4002S

**Installation Kit**

70-900-4002T



APPLICATION PACKAGES

Animal feed, Chemicals and fertilizers, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-4002S RF Coil Silver for Thermo iCAP 6000	
20-809-2665HE Tracey Spray Chamber with Helix		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
30-808-2877 D-Torch for iCAP 6000 Radial (Quartz Outer Tube)		0.64-OW-F Contour Flared End PVC Pump Tube 2tag 0.64mm ID Orange/White (PKT 6)	
31-808-2834 Tapered Quartz Injector 1.5mm (EMT)		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	

Brines and salts

ARG-07-USS2 SeaSpray U-Series Nebulizer 2mL/min		70-900-4002S RF Coil Silver for Thermo iCAP 6000	
20-809-2951HE Twister Spray Chamber with Helix		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
30-808-2877 D-Torch for iCAP 6000 Radial (Quartz Outer Tube)		0.64-OW-F Contour Flared End PVC Pump Tube 2tag 0.64mm ID Orange/White (PKT 6)	
31-808-2881 Ceramic Outer Tube for Radial iCAP 6000 D-Torch		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	
31-808-2836 Capillary Quartz Injector 2.0mm (EMT)		70-803-0634 Capricorn Argon Humidifier with bypass for Thermo iCAP 6000	

Clinical and forensic materials

ARG-07-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		70-900-4002S RF Coil Silver for Thermo iCAP 6000	
20-809-2951HE Twister Spray Chamber with Helix		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
30-808-2877 D-Torch for iCAP 6000 Radial (Quartz Outer Tube)		0.38-OG-F Contour Flared End PVC Pump Tube 2tag 0.38mm ID Orange/Green (PKT 6)	
31-808-2836 Capillary Quartz Injector 2.0mm (EMT)		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	

Drinking, ground and surface water

ARG-07-UC2 Conikal U-Series Nebulizer 2mL/min		70-900-4002S RF Coil Silver for Thermo iCAP 6000	
20-809-2665HE Tracey Spray Chamber with Helix		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
30-808-2877 D-Torch for iCAP 6000 Radial (Quartz Outer Tube)		0.64-OW-F Contour Flared End PVC Pump Tube 2tag 0.64mm ID Orange/White (PKT 6)	
31-808-2834 Tapered Quartz Injector 1.5mm (EMT)		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	

Geological with HF, Soil and sediment with HF

ARG-07-DM1 DuraMist Nebulizer 1mL/min		31-808-2835 Alumina Injector 2.0mm (EMT)	
20-809-9198 Tracey TFE Spray Chamber with Helix		70-900-4002S RF Coil Silver for Thermo iCAP 6000	
30-808-2877 D-Torch for iCAP 6000 Radial (Quartz Outer Tube)		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
31-808-2881 Ceramic Outer Tube for Radial iCAP 6000 D-Torch		0.64-OW-F Contour Flared End PVC Pump Tube 2tag 0.64mm ID Orange/White (PKT 6)	
		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	





Petrochemicals


ARG-07-UM06 MicroMist U-Series Nebulizer 0.6mL/min		31-808-2833 Tapered Quartz Injector 1.0mm (EMT)	
KT-1021 IsoMist Kit for Thermo iCAP 6000 Radial		70-900-4002S RF Coil Silver for Thermo iCAP 6000	
30-808-2877 D-Torch for iCAP 6000 Radial (Quartz Outer Tube)		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
31-808-2881 Ceramic Outer Tube for Radial iCAP 6000 D-Torch		0.64-OW-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.64mm ID Orange/White (PKT 6)	
		1.02-WHT-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.02mm ID White/White (PKT 6)	




APPLICATION PACKAGES

Wear Metals in oil			
ARG-07-US6 Slurry U-Series Nebulizer 4mL/min		31-808-2833 Tapered Quartz Injector 1.0mm (EMT)	
20-809-2951HE Twister Spray Chamber with Helix		70-900-4002S RF Coil Silver for Thermo iCAP 6000	
30-808-2877 D-Torch for iCAP 6000 Radial (Quartz Outer Tube)		70-900-4002T RF Coil Installation Tool for Thermo iCAP 6000	
31-808-2881 Ceramic Outer Tube for Radial iCAP 6000 D-Torch		0.64-OW-SF-F Contour Flared End Solva Flex Pump Tube 2tag 0.64mm ID Orange/White (PKT 6)	
		1.02-WHT-SF-F Contour Flared End Solva Flex Pump Tube 2tag 1.02mm ID White/White (PKT 6)	

PRODUCT LIST

Nebulizers		
Conikal		
2mL/min uptake	ARG-07-UC2	
SeaSpray		
2mL/min uptake	ARG-07-USS2	
Slurry		
4mL/min uptake	ARG-07-US6	
MicroMist		
600µL/min uptake	ARG-07-UM06	
200µL/min uptake	ARG-07-UM02	
100µL/min uptake	ARG-07-UM01	
50µL/min uptake	ARG-07-UM005	
OpalMist		
2mL/min uptake	ARG-07-PFA2	
600µL/min uptake	ARG-07-PFA06	
200µL/min uptake	ARG-07-PFA02	
100µL/min uptake	ARG-07-PFA01	
50µL/min uptake	ARG-07-PFA005	
DuraMist		
1mL/min uptake	ARG-07-DM1	
400µL/min uptake	ARG-07-DM04	
VeeSpray - Ceramic		
Standard	ARG-07-CV6	

IsoMist		
IsoMist Programmable Temperature Spray Chamber		
IsoMist Kit for Thermo iCAP 6000 Radial	KT-1021	

Spray Chambers		
Tracey		
50mL Cyclonic	20-809-2665HE	
Twister		
50mL Cyclonic	20-809-2951HE	
Tracey TFE		
50mL Cyclonic	20-809-9198	
Suitable for use with HF.		
Straight Ball Joint Adaptor		

PRODUCT LIST

Torches

D-Torch Demountable 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



Injectors for D-Torch & EMT Torch

Tapered Quartz Injector
1.0mm (EMT) 31-808-2833

Tapered Quartz Injector
1.5mm (EMT) 31-808-2834

Capillary Quartz Injector
2.0mm (EMT) 31-808-2836



Alumina Injector 2.0mm
(EMT) 31-808-2835



Quartz Torch

Quartz Torch (EMT) 31-808-2810



Quartz Torch

Quartz Torch
(Old Design) 31-808-2692



Injectors for Old Design Semi Demountable Torch

Tapered Quartz Injector
1.0mm 31-808-2719

Tapered Quartz Injector
1.5mm 31-808-2702

Capillary Quartz Injector
2.0mm 31-808-2675



Tapered Alumina Injector
1.5mm 31-808-2787

Alumina Injector 2.0mm 31-808-2786

Sapphire Injector 2.0mm 31-808-2804



Options for D-Torch

Ceramic Outer Tube 31-808-2881



RF Coils

RF Coil

Gold, Teflon Coated 70-900-4002G



RF Coil

Silver, Teflon Coated 70-900-4002S



Installation Kit

70-900-4002T



APPLICATION PACKAGES





Animal feed, Chemicals and fertilizers, Drinking, ground and surface water, Food and drink, Geological without HF, Metals, Plants, Soil and sediment without HF, Waste water and sludge

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		TG1022-Ni Nickel Skimmer Cone, Xi, Xt	
KT-1025 IsoMist Kit for Thermo X Series		0.19-OR-F Contour Flared End PVC Pump Tube 2tag 0.19mm ID Orange/Red (PKT 6)	
30-808-1279 Quartz Torch with 1.5mm Injector for X Series		0.51-OY-F Contour Flared End PVC Pump Tube 2tag 0.51mm ID Orange/Yellow (PKT 6)	
31-808-2831 Quartz Bonnet for X-Series		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	
TG1021-Ni/Cu Nickel Sampler Cone, Copper Core		60-808-1185 Trident Internal Standard Kit	

Brines and salts

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		0.19-OR-F Contour Flared End PVC Pump Tube 2tag 0.19mm ID Orange/Red (PKT 6)	
KT-1025 IsoMist Kit for Thermo X Series		0.51-OY-F Contour Flared End PVC Pump Tube 2tag 0.51mm ID Orange/Yellow (PKT 6)	
30-807-0532 Quartz Torch with 2.0mm Injector for X Series		1.02-WHT-F Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)	
31-808-2831 Quartz Bonnet for X-Series		60-808-1185 Trident Internal Standard Kit	
TG1008-Pt Platinum Micro-Skimmer Cone, Xs		70-808-1226 Capricorn Argon Humidifier with bypass	
TG1026A-Pt/Cu Platinum Sampler Cone, Copper Core			

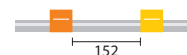
Clinical and forensic materials

ARG-1-USS04 SeaSpray U-Series Nebulizer 0.4mL/min		30-807-0532 Quartz Torch with 2.0mm Injector for X Series	
KT-1025 IsoMist Kit for Thermo X Series		31-808-2831 Quartz Bonnet for X-Series	

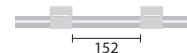
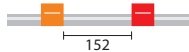
Clinical and forensic materials (continued)

TG1021-Ni/Cu

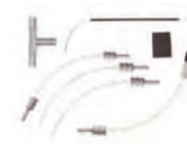
Nickel Sampler Cone, Copper Core

**0.51-OY-F**Contour Flared End PVC Pump Tube 2tag
0.51mm ID Orange/Yellow (PKT 6)**TG1022-Ni**

Nickel Skimmer Cone, Xi, Xt

**1.02-WHT-F**Contour Flared End PVC Pump Tube 2tag
1.02mm ID White/White (PKT 6)**0.19-OR-F**Contour Flared End PVC Pump Tube 2tag
0.19mm ID Orange/Red (PKT 6)**60-808-1185**

Trident Internal Standard Kit



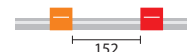
Geological with HF, Soil and sediment with HF

ARG-1-PFA04

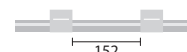
OpalMist Nebulizer 0.4mL/min

**TG1026A-Pt/Cu**

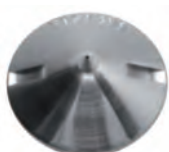
Platinum Sampler Cone, Copper Core

**KT-1025P**IsoMist Kit with PFA Spray Chamber for
Thermo X Series**0.19-OR-F**Contour Flared End PVC Pump Tube 2tag
0.19mm ID Orange/Red (PKT 6)**30-808-0998**Semi Demountable Torch with Alumina
Injector for X-Series**0.51-OY-F**Contour Flared End PVC Pump Tube 2tag
0.51mm ID Orange/Yellow (PKT 6)**31-808-2831**

Quartz Bonnet for X-Series

**1.02-WHT-F**Contour Flared End PVC Pump Tube 2tag
1.02mm ID White/White (PKT 6)**TG1008-Pt**

Platinum Micro-Skimmer Cone, Xs

**60-808-1150**

Trident Internal Standard Kit for HF solutions



Isotopic Analysis of Minerals

ARG-1-USS04

SeaSpray U-Series Nebulizer 0.4mL/min

**TG1026A-Pt/Cu**

Platinum Sampler Cone, Copper Core

**KT-1025**

IsoMist Kit for Thermo X Series

**0.19-OR-F**Contour Flared End PVC Pump Tube 2tag
0.19mm ID Orange/Red (PKT 6)**30-807-0532**

Quartz Torch with 2.0mm Injector for X Series

**0.51-OY-F**Contour Flared End PVC Pump Tube 2tag
0.51mm ID Orange/Yellow (PKT 6)**31-808-2831**

Quartz Bonnet for X-Series

**1.02-WHT-F**Contour Flared End PVC Pump Tube 2tag
1.02mm ID White/White (PKT 6)**TG1008-Pt**

Platinum Micro-Skimmer Cone, Xs

**60-808-1185**

Trident Internal Standard Kit



APPLICATION PACKAGES

Semiconductors

ARG-1-PFA04

OpalMist Nebulizer 0.4mL/min

**TG1026A-Pt/Cu**

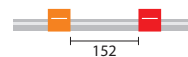
Platinum Sampler Cone, Copper Core

**KT-1025P**

IsoMist Kit with PFA Spray Chamber for Thermo X Series

**0.19-OR-F**

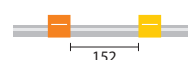
Contour Flared End PVC Pump Tube 2tag 0.19mm ID Orange/Red (PKT 6)

**30-808-1257**

Semi Demountable Torch (Platinum Injector) for X-Series

**0.51-OY-F**

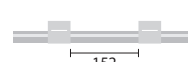
Contour Flared End PVC Pump Tube 2tag 0.51mm ID Orange/Yellow (PKT 6)

**31-808-2831**

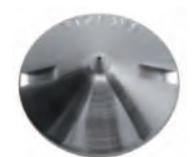
Quartz Bonnet for X-Series

**1.02-WHT-F**

Contour Flared End PVC Pump Tube 2tag 1.02mm ID White/White (PKT 6)

**TG1008-Pt**

Platinum Micro-Skimmer Cone, Xs

**60-808-1185**

Trident Internal Standard Kit



Petrochemicals

ARG-1-USS04

SeaSpray U-Series Nebulizer 0.4mL/min

**TG1022-Ni**

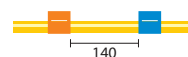
Nickel Skimmer Cone, Xi, Xt

**KT-1025**

IsoMist Kit for Thermo X Series

**0.25-OB-SF-F**

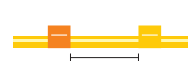
Contour Flared End Solva Flex Pump Tube 2tag 0.25mm ID Orange/Blue (PKT 6)

**30-808-1279**

Quartz Torch with 1.5mm Injector for X Series

**0.51-OY-SF-F**

Contour Flared End Solva Flex Pump Tube 2tag 0.51mm ID Orange/Yellow (PKT 6)

**31-808-2831**

Quartz Bonnet for X-Series

**1.02-WHT-SF-F**

Contour Flared End Solva Flex Pump Tube 2tag 1.02mm ID White/White (PKT 6)

**TG1021-Ni/Cu**

Nickel Sampler Cone, Copper Core

**60-808-1185**

Trident Internal Standard Kit



PRODUCT LIST

Nebulizers

SeaSpray

400µL/min uptake ARG-1-USS04

MicroMist

400µL/min uptake ARG-1-UM04

200µL/min uptake ARG-1-UM02

100µL/min uptake ARG-1-UM01

50µL/min uptake ARG-1-UM005

OpalMist

400µL/min uptake ARG-1-PFA04

200µL/min uptake ARG-1-PFA02

100µL/min uptake ARG-1-PFA01

50µL/min uptake ARG-1-PFA005



IsoMist

IsoMist Programmable Temperature Spray Chamber

IsoMist Kit for Thermo X Series KT-1025



Spray Chambers

Twister

50mL Cyclonic 20-809-0293HE



Twinnabar

20mL Cyclonic 20-809-0536HE



Torches

Fixed Torch (Quartz One Piece)

Quartz Torch with 1.5mm Injector 30-808-1279

Quartz Torch with 2.0mm Injector 30-807-0532



Semi Demountable Torch (HF)

30-808-0998

Comprises:

X-Series Semi Demountable Torch Body 31-808-1009

X-Series Semi Demountable Torch Adaptor 31-808-0984

Tapered Alumina Injector 1.5mm 31-808-1013

GazFit Connectors (PKT 4) GAZ-06



Torches (continued)

Injector Options

Tapered Alumina Injector 1.5mm 31-808-1013

Platinum Injector 1.5mm 31-808-1256

Sapphire Injector 2.0mm 31-808-3001



Other Products

Quartz Bonnet 31-808-2831



Cones

Nickel Sampler, Copper Core

(Thermo p/n 3600812) TG1021-Ni/Cu



Nickel Skimmer, Xi, Xt

(Thermo p/n 3600811) TG1022-Ni



Nickel Skimmer, Xs

(Thermo p/n 3200860) TG1004-Ni



Skimmer Interface

(Thermo p/n 3600813) TG1023-Cu



Skimmer Interface, X Series II

(Thermo p/n 3601320) TG1023-Ni

Platinum Micro-Skimmer Cone, Xs, Copper Core

(Thermo p/n 3201101) TG1008-Pt



Platinum Sampler Cone, X Series, Copper Core

(Thermo p/n 3601289) TG1026A-Pt/Cu



NEBULIZER TUBING & CONNECTORS

EzyLok Kit for Nebulizer Gas Side Arm

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



Sample Tube Connectors (PKT 10)

	UniFit P/N	EzyFit P/N
0.25mm ID x 1.27mm OD x 700mm long	NFT-025	EZT-025
0.25mm ID x 1.27mm OD x 2000mm long	NFT2-025	EZT2-025
0.50mm ID x 1.27mm OD x 700mm long	NFT-050	EZT-050
0.50mm ID x 1.27mm OD x 2000mm long	NFT2-050	EZT2-050
0.75mm ID x 1.27mm OD x 700mm long	NFT-075	EZT-075
0.75mm ID x 1.27mm OD x 2000mm long	NFT2-075	EZT2-075
0.75mm ID x 1.27mm OD x 1500mm long	NFTS-075	EZTS-075
0.07mm ID x 1/16" OD x 700mm long	NFT-16-07	EZT-16-07
0.13mm ID x 1/16" OD x 700mm long	NFT-16-13	EZT-16-13
0.18mm ID x 1/16" OD x 700mm long	NFT-16-18	EZT-16-18
0.25mm ID x 1/16" OD x 700mm long	NFT-16-25	EZT-16-25
0.25mm ID x 1/16" OD x 1500mm long	NFTS-16-25	EZTS-16-25
0.50mm ID x 1/16" OD x 700mm long	NFT-16-50	EZT-16-50
0.50mm ID x 1/16" OD x 1500mm long	NFTS-16-50	EZTS-16-50
0.75mm ID x 1/16" OD x 700mm long	NFT-16-75	EZT-16-75
0.75mm ID x 1/16" OD x 1500mm long	NFTS-16-75	EZTS-16-75
Tefzel 0.5mm ID x 1.3mm OD x 700mm long	NFTFE-050	EZTFE-050
0.3mm ID x 0.75mm OD x 700mm long	NFT-0703	EZT-0703



PFA Sample Tubing

0.25mm ID x 1.27mm OD x 10m long	STT-025
0.50mm ID x 1.27mm OD x 10m long	STT-050
0.75mm ID x 1.27mm OD x 10m long	STT-075
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
0.3mm ID x 0.75mm OD x 10m long	STT-0703
0.13mm ID x 1.27mm OD x 10m long	PFT-013
0.18mm ID x 1.27mm OD x 10m long	PFT-018
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
Tefzel 0.5mm ID x 1.3mm OD x 10m long	TFE-050

Other Tubing & Clips

VeeSpray Nebulizer Sample Tubing (PKT 10)	VSS-075
VeeSpray Screw & O-Rings Kit (PKT 10 of each)	VKT-0118
PolyCon/VeeSpray Sample Tube O-rings (PKT 10)	V-001
Nebulizer Pressure Hose Clips (PKT 10)	SNP-1
Sample tubing 0.25mm ID x 1.27mm OD x 700mm long, for 0.05 and 0.1ml/min OpalMist and PolyCon (PKT 10)	70-808-0360

FITTINGS & CONNECTORS FOR SPRAY CHAMBERS

O-Rings & Seals

Helix Seal (PKT 4)	70-100-0237
Helix Locking Screw	70-100-0152
Nebulizer Spacer	21-100-0246
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, 12mm small adaptor seal (PKT 5)	VT-9/1.5
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



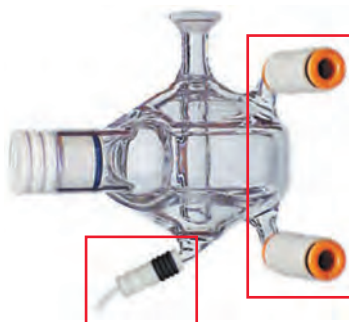
Helix Seal



Helix Locking Screw

Clips & Connectors

Metal Ball Joint Clip (to connect spray chamber and torch)	JC-13
Nickel Joint Clip B14 (to connect spray chamber and drain adaptors)	KCM-14
Nickel Joint Clip KCM29 (to connect spray chamber and drain adaptors)	KCM-29
EzyLok Connector for Jacketed Spray Chamber Coolant Arm Tubing (PKT 4)	QSM-1/4-4
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

Suitable for use with 1/4" Nylon, Teflon, Polyamide or Polyurethane tubing.



JC-13

CONNECTORS FOR TORCHES

GazFit Connectors

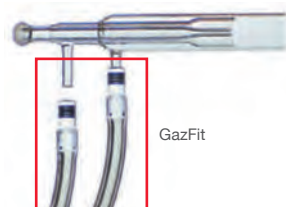
GazFit Connectors (PKT 2), for 8mm OD arm	GAZ-08
GazFit Connectors (PKT 4), for 6mm OD torch side arms	GAZ-06
GazFit Connectors (PKT 4), 2 for 6mm OD torch side arms, 2 for 4mm OD torch side arms	GAZ-0604
GazFit Connectors (PKT 4), for 5mm OD torch side arms	GAZ-05
GazFit Connectors (PKT 4), for 4mm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

O-Rings

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

PVC PERISTALTIC PUMP TUBING

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

Special Properties:

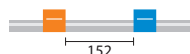
Inexpensive all-round tubing for general laboratory applications.

Advantages:

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

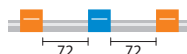
Limitations:

Potential leaching of plasticizers.



PVC, 2 Bridged
(152mm between tags)

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



PVC, 3 Bridged
(72mm between tags)

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

SOLVA PERISTALTIC PUMP TUBING

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

Special Properties:

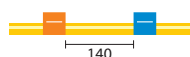
Special tubing for hydrocarbons, petroleum products and distillates.

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 between tags)

Tag Colours	ID (mm)	P/N
	0.25	0.25-OB-SF
	0.38	0.38-OG-SF
	0.51	0.51-OY-SF
	0.64	0.64-OW-SF
	0.76	0.76-BLK-SF
	0.89	0.89-ORG-SF
	1.02	1.02-WHT-SF
	1.14	1.14-RED-SF
	1.30	1.30-GRY-SF

Tag Colours	ID (mm)	P/N
	1.42	1.42-YLW-SF
	1.52	1.52-YB-SF
	1.65	1.65-BLU-SF
	1.85	1.85-GRN-SF
	2.06	2.06-PUR-SF
	2.29	2.29-PBLK-SF
	2.54	2.54-PO-SF
	2.79	2.79-PW-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 between tags)

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

Supplied in packs of 12 tubes

Viton® Tubing without Stoppers

ID (mm)	Wall (mm)	P/N
1.00	1.00	V-1
1.50	0.75	V-1.5
2.00	1.00	V-2
3.00	1.00	V-3

Supplied in rolls

TYGON® MH PERISTALTIC PUMP TUBING

All tubes made from Tygon MHSL 2001.

Special Properties:

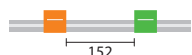
Environmental-friendly tubing especially designed for solvents.
Suitable for MIBK.

Advantages:

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

Limitations:

Limited service life.



Tygon® MH Tubing, 2 Bridged (152mm between tags)

Tag Colours	ID (mm)	P/N
	0.38	0.38-ORG-MH
	0.64	0.64-OW-MH
	1.02	1.02-WHT-MH
	1.52	1.52-YB-MH
	2.06	2.06-PUR-MH
	2.79	2.79-PW-MH

Supplied in packs of 6 tubes

Tygon® MH Tubing, Continuous

ID (mm)	P/N
0.38	0.38-ORG-M
0.64	0.64-OW-M
1.02	1.02-WHT-M
1.52	1.52-YB-M
2.06	2.06-PUR-M
2.79	2.79-PW-M

Supplied in rolls of 10 metres



Tygon® MH Tubing, 2 Bridged (72mm between tags)

Tag Colours	ID (mm)	P/N
	0.38	0.38-ORG-MH3
	0.64	0.64-OW-MH3
	1.02	1.02-WHT-MH3
	1.52	1.52-YB-MH3
	2.06	2.06-PUR-MH3
	2.79	2.79-PW-MH3

Supplied in packs of 6 tubes

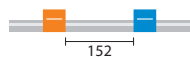
CONTOUR FLARED END PVC PERISTALTIC PUMP TUBING

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.

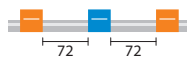
Advantages:
Transparent.
Resistant to almost all inorganic materials.
Does not age.
Low gas permeability.
Smooth inner surface.

Limitations:
Potential leaching of plasticizers.




























PVC, 2 Bridged
(152mm between tags)

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



PVC, 3 Bridged
(72mm between tags)

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

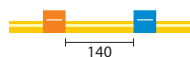
CONTOUR FLARED END SOLVA PERISTALTIC PUMP TUBING

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 between tags)

Tag Colours	ID (mm)	P/N
	0.25	0.25-OB-SF-F
	0.38	0.38-OG-SF-F
	0.51	0.51-OY-SF-F
	0.64	0.64-OW-SF-F
	0.76	0.76-BLK-SF-F
	0.89	0.89-ORG-SF-F
	1.02	1.02-WHT-SF-F
	1.14	1.14-RED-SF-F
	1.30	1.30-GRY-SF-F

Tag Colours	ID (mm)	P/N
	1.42	1.42-YLW-SF-F
	1.52	1.52-YB-SF-F
	1.65	1.65-BLU-SF-F
	1.85	1.85-GRN-SF-F
	2.06	2.06-PUR-SF-F
	2.29	2.29-PBLK-SF-F
	2.54	2.54-PO-SF-F
	2.79	2.79-PW-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 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 Tubing, 2 Bridged (152mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-ORG-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 Tubing, 2 Bridged (72mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-ORG-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

Contour Flared-end Peristaltic Pump Tubing

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.