

Kit Part Number KT-8014

Applicable only to the following model:

- Micromass

For the most reproducible results and suitable for most ICP-MS aqueous and organic applications including:

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| Agricultural | Geological |
| Environmental | Metallurgical |
| Food | Petrochemical |
| Forensic | Pharmaceutical |

The following set of sample introduction components is recommended for most routine aqueous and organic applications. The kit consists of:

- Conikal concentric nebulizer for detection limit work and rugged performance with tough sample matrices.
- Tracey cyclonic spray chamber for excellent sensitivity and stability with low memory and matrix effects.
- Semi-Demountable Torch designed for cost effective low flow, low power performance. All torch components rapidly interchangeable.



ICP-MS Kit	Type	Part No.
Conikal Nebulizer - STF	Concentric, 1ml/min	AR40-1-FC1
EzyFit Sample Connector & Kit	Packet 10	EZT-075
Tracey Spray Chamber	Cyclonic, 50ml	808-8882
Torch	Quartz, Semi-Demountable	808-0252
<i>Torch Includes</i>		
Torch Body	Quartz	808-0244
Quartz Injector Tube	98mm, 4 to 1.8mm	808-8889
Spray Chamber Adaptors		808-0377 & 808-0254
<i>Plus Spare</i>		
Quartz Injector Tube	98mm, 4 to 1.8mm	808-8889

Typical Specifications & Performance Data

Nebulizer	
Type	High Precision Concentric
Material	Borosilicate
Sample Uptake	1ml/min
Argon Flow	1.0L/min
Argon Pressure	40psi
Precision	0.3 - 1.0% RSDs
Reproducibility	To within 1% per hour
Dissolved Solids	Up to 5% w/v
Particulates	Up to 75um

Spray Chamber	
Type	Rapid Washout Cyclonic
Material	Borosilicate
Volume	50ml
Washout Times	10s to 1% of signal 25s to 0.1% of signal
Drain	Pumped

Torch	
Type	Semi-Demountable with Interchangeable Injector Tube
Material	Quartz Torch Body, Quartz Injector Tube
Typical Ar Flows	Plasma 10L/min Auxiliary 0.5L/min

Sample Introduction Options for Aqueous & Organics



Nebulizer Options	Type	Part No.
Conikal Nebulizer - STF	1ml/min	AR40-1-FC1

The Conikal nebulizer represents the choice nebulizer for high precision routine aqueous and organic applications. Tolerates 5% dissolved solids and particulates to 75µm.

SeaSpray Nebulizer - STF	6ml/min	AR40-1-FSS2
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The SeaSpray concentric nebulizer offers outstanding nebulization efficiency for trace level analysis. Offers significant sensitivity improvements and high tolerance to salts (up to 20%) and particulates (up to 75µm).

Slurry Nebulizer - STF	6ml/min	AR40-1-FS6
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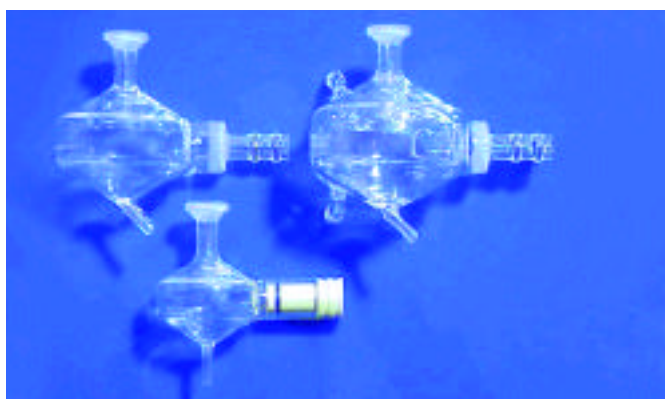
The Slurry concentric nebulizer is ideal for specialised applications requiring the aspiration of slurries or suspensions. Tolerating particulates up to 150µm, slurry applications include milk powder and cement suspensions. It has a natural liquid uptake of 6ml/min but operates best between 1.5 - 2.5ml/min.

VeeSpray Nebulizer (Quartz)	Non-Aspirating	AR40-1-QV6
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The quartz VeeSpray v-groove nebulizer provides reproducible performance when working with samples containing particulates up to 300µm. Operates best between 1.5 - 2.5ml/min.

MicroMist-400 Nebulizer	400ul/min	AR40-1-FM04
MicroMist-200 Nebulizer	200ul/min	AR40-1-FM02
MicroMist-100 Nebulizer	100ul/min	AR40-1-FM01
MicroMist-50 Nebulizer	50ul/min	AR40-1-FM005

The MicroMist range of low volume, high performance concentric nebulizers is available in 4 versions depending on your sample volume and sensitivity requirements. Fits in most spray chambers including the standard cyclonic and Cinnabar mini-cyclonic spray chambers.



Spray Chamber Options	Type	Part No.
Tracey Spray Chamber	Cyclonic, 50ml	808-8882

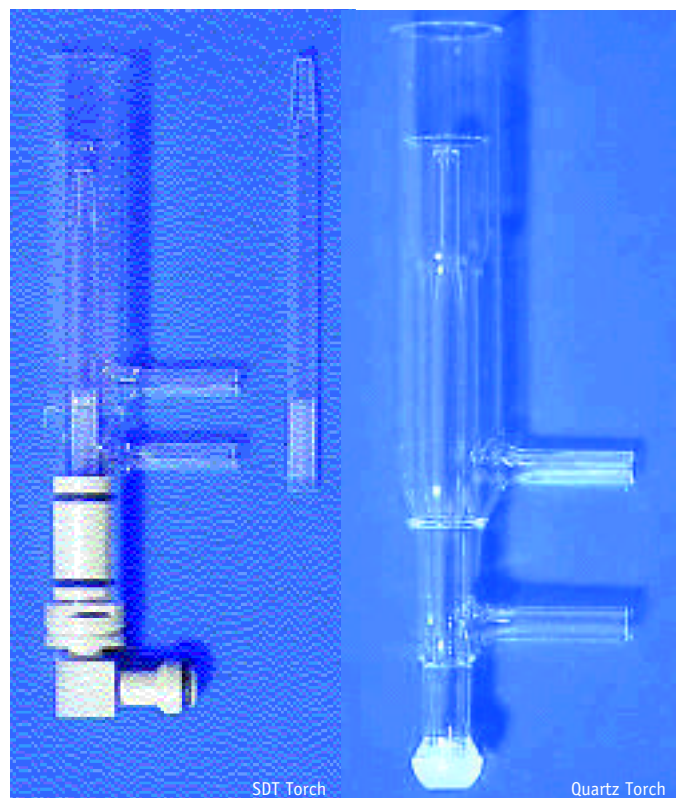
The Tracey spray chamber has excellent sensitivity and stability with low memory and matrix effects.

Jacketed Spray Chamber	Cyclonic, 50ml, Recirculating	809-0802
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Can be thermostatted to constant temperature to ensure highly reproducible results. Alternatively, can be cooled to suppress volatilization, allowing the direct aspiration of highly volatile solvents such as naphtha and petrol/gasoline.

Cinnabar Spray Chamber	Mini-Cyclonic, 20ml	809-0164
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The Cinnabar spray chamber gives good sensitivity at very low uptakes, whilst reducing memory and matrix effects. Designed for use with Glass Expansion's MicroMist nebulizers.



Torch Options	Type	Part No.
Torch	Quartz, Semi-Demountable	808-0252
<i>Comprises</i>		
Torch Body	Quartz	808-0244
Quartz Injector Tube (Std)	98mm, 4 to 1.8mm	808-8889
Spray Chamber Adaptors		808-0377 & 808-0254

<i>Interchangeable Quartz Injector Tubes</i>		
Quartz Injector Tube	98mm, 4 to 2.0mm	808-0350
Quartz Injector Tube (Std)	98mm, 4 to 1.8mm	808-8889
Quartz Torch (Std)	Quartz, One-piece	808-0234



Hydra-Trace	Type	Part No.
Hydra-Trace Kit		KT-9027
<i>Comprises</i>		
MicroMist-200 Nebulizer	200ul/min	AR40-1-FM02
Cinnabar Spray Chamber	Mini-Cyclonic, 20ml	809-0164

The ideal combination for high sensitivity analyses on limited sample volumes. Significantly reduces matrix effects, memory effects and washout times.

Note:
STF - Sample Tube Fitted Nebulizer. Comes with Ezyfit connector.