

HF Resistant Sample Introduction for ICP-MS & ICP-AES

Nebulizers, Spraychambers, Injectors and Torches



MicroFlow PFA Nebulizers

Elemental Scientific offers three basic types of PFA nebulizers; the integrated capillary PFA series, the removable capillary PFA series and the integrated autosampler probe series. All these nebulizers offer the same characteristics:

- All-Teflon® construction.
- Chemically resistant—ideal for strong acids, alkalis, organics.
- Resistant to clogging—reliably self-aspirated or pumped.
- Low, spike-free background for important elements such as Fe and Ca.
- Produces a fine aerosol for high transport efficiency and high sensitivity.
- Analyze all sample types with a single introduction system.
- Direct analysis of volatile and non-volatile organic solvents.
- Directly replace any 6 mm (Meinhard) type nebulizer.

PolyPro Nebulizers

The PolyPro nebulizer is a low-cost HF resistant alternative to the MicroFlow PFA nebulizer. The PolyPro has lower chemical resistance and slightly higher background levels than the MicroFlow PFA nebulizer, but is a robust nebulizer for many applications where the ultimate detection limits are not critical, including ICPAES.

- Polypropylene and Teflon® construction.
- High performance.
- Longer lifetime than glass or quartz nebulizers.
- Chemically resistant to most samples including HF.
- Self-aspiration with exchangeable capillaries.
- 0-5 ml/min sample flow rate with peristaltic pumping.
- Resistant to clogging and accidental breakage.
- Anti-clog tool for easy maintenance is available.





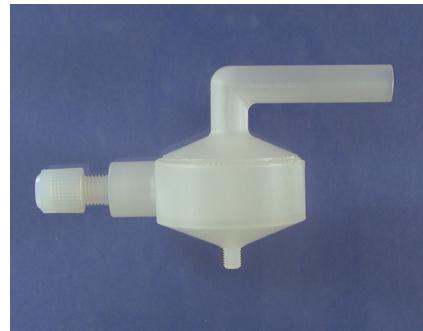
PFA PureChamber Spray Chamber and PFA PureCap Endcap

- PFA Teflon® construction
 - low contamination
 - chemically inert
 - ideal for dilute-and-shoot analyses
- O-ring-free seal
 - reduces contamination
 - easy to clean
 - low maintenance
- High transmission and selectivity
 - Excellent short and long-term stability
 - High sensitivity
 - Fast rinse-out

PolyPro Cyclonic Spray Chambers

The PolyPro cyclonic spray chamber is suitable for high through-put applications. It is entirely constructed of inert polypropylene and PFA Teflon® materials and is completely o-ring free.

- All polypropylene and PFA Teflon® construction.
- Resistant to hydrofluoric acid.
- O-ring free connections to the nebulizer and injector
- Low internal volume.
- Fast rinse-out vs. Scott-type spray chamber.
- Fits any 6mm nebulizer including : MicroFlow PFA Nebulizer, PolyPro Nebulizer.
- Secure, leak-free threaded drain port.
- Available either with or without internal baffle.
- Optional threaded auxilliary port for addition gas.
- All ESI PolyPro spray chambers may be used alone or with the PC³ Peltier Cooler for temperature control.



Injectors & Torches

- O-ring free Injectors and Precision Quartz Torches
- O-ring-free seal
 - reduces contamination
 - easy to clean
 - easy to insert
- Precision alignment of torch and injector
- Stronger, reinforced torch base helps prevent accidental breakage during maintenance
- Sapphire Injector
 - This HF resistant injector is ideal for most high purity and low background applications.
- Platinum Injector
 - This HF resistant injector is recommended for improved performance for sub to low ppt Al determinations.