NEW & IMPROVED IsoMist XS™

The IsoMist XS is also the only temperature-controlled cyclonic spray chamber that can offer cooling down to -25°C or heating up to +80°C in a single platform. Programmable in 1.0°C increments, while maintaining a stability of +/- 0.1°C the IsoMist XS enhances the sample introduction environment to provide the conditions necessary for accurate and reproducible measurements for any ICP-OES or ICP-MS application.

Improve Analytical Stability

Temperature fluctuations in ICP analysis can cause baseline drift, impacting measurement accuracy. For increasingly stringent testing and reporting methods, a stable temperature improves QC, CCV, and QCS recoveries, eliminating the need for recalibrations and ensuring consistent results.

Reduce Oxides in ICP-MS

The advantages of cooling a sample using a sub-ambient temperature spray chamber on an ICP-MS are well known. Maintaining a cooled sample within the spray chamber ensures less water vapor is transferred to the plasma, resulting in lower oxide formation and reduced polyatomic interferences – improving accuracy and detection limits. With the IsoMist XS you can fine tune that temperature setting in 1°C increments to create the most robust plasma conditions for your application.

Perfect for Volatile Organics

When analyzing volatile organic solvents such as naphtha along with various types of fuels, a lower spray chamber temperature reduces transport efficiency avoiding quenching of the plasma from solvent over-loading. Having the capability to reach a stable temperature as low as -25°C, allows for the analysis of highly volatile organic solvents and fuels without dilution, significantly improving accuracy and limits of detection.

GE GLASS EXPANSION
Quality By Design

Benefits of Elevated Sample Introduction Temperatures

The sensitivity for many analyses can be enhanced by running the spray chamber at an elevated temperature, which improves transport efficiency by reducing droplet size. Increased transport efficiency is particularly important for samples with limited volume, such as, clinical, radioactive and forensic sample, in addition to precious metals. An elevated temperature can also be beneficial when analyzing food-based oils and lubricants by decreasing viscosity.

Application Flexibility and Superior Design Innovation

The IsoMist XS incorporates Glass Expansion's proven Glass Twister cyclonic spray chamber design. A Quartz Twister and HF resistant, high-purity PFA Tracey design is also available upon request.. All of which are easily interchangeable, allowing for application flexibility should sample matrices change. All of Glass Expansion's cyclonic spray chambers, including the IsoMist XS feature the Helix CT interface. The Helix CT fitting is completely inert and carefully designed to fix the depth of penetration and torque of the nebulizer seal so that the aerosol produced is optimal. The Helix interface is also the only true zero-dead volume nebulizer/spray chamber interface providing unmatched washout efficiencies. These design innovations have provided Glass Expansion spray chamber sensitivity gains, reduced washout times and reduced matrix effects not possible with other spray chambers.

Glass Twister Spray Chamber with Helix CT
P/N 21-809-3186

Quartz Twister Spray Chamber with Helix CT
P/N 21-809-3192

PFA Tracey Spray Chamber with Helix CT
P/N 21-809-2985

Improved Connectivity

The IsoMist XS builds off of the legacy IsoMist and IsoMist XR line of Glass Expansion's industry leading compact, programmable, temperature-controlled, cyclonic spray chambers, preserving the user friendly, stand-alone software control for easy start up and temperature control and monitoring. New to the IsoMist XS, is an Ethernet cable enabling superior connectivity and control via the instrument PC. An optional Ethernet to USB dongle is also provided if an Ethernet connection is not available.

Elegant, Ergonomic and Compact

The compact design and customized kit allow the IsoMist XS to be compatible with virtually any ICP-OES or ICP-MS.

Contact enquiries@geicp.com to find the IsoMist XS to suit your ICP-OES or ICP-MS model.

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