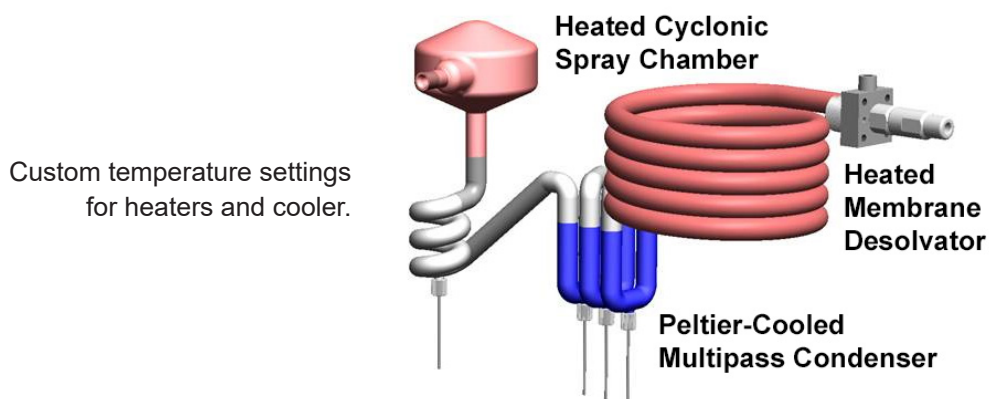


Apex Omega

High Sensitivity Sample
Introduction Systems



Benefits

- Increase sensitivity by 6x to more than 10x, depending upon sample flow rate
- Significantly reduce oxides and solvent removal (0.01% CeO⁺/Ce⁺)
- Two stage desolvation (Peltier-cooled and EPTFE membrane) imparts matrix tolerance higher than any membrane desolvator on the market
- Features complete software control of:
 - Ar sweep gas mass flow controller
 - N₂ addition gas mass flow controller
 - Heated spray chamber temperature
 - Peltier-cooled condenser temperature
 - Heated membrane temperature
 - Micro peristaltic drain pump

Apex Omega Systems with Integrated MFC

The next generation of the highly successful Apex system features software control of temperatures for the heated spray chamber, Peltier-cooled condenser and heated membrane, as well as precise MFC control of nitrogen and argon additional gas/sweep gas flows.

The system maximizes ICPMS sensitivity by nebulizing liquid samples into a heated cyclonic spray chamber. The multi-stage Peltier-cooled condensing systems remove the solvent vapor, reducing solvent loading on the membrane. Finally, a helical EPTFE fluoropolymer membrane desolvator removes remaining solvent vapor, achieving the lowest possible oxides and interferences. The Apex Omega is available with either quartz or HF-resistant PFA flow path.

Model	Description	Part Number
Apex Omega	Apex Omega quartz high performance membrane desolvation system with quartz spray chamber, Peltier-cooled quartz condenser and EPTFE membrane desolvator	APX-O
Apex Omega HF	Apex Omega HF resistant high performance membrane desolvation system with PFA spray chamber, Peltier-cooled PFA condenser and EPTFE membrane desolvator	APX-O-HF

