

Apex Omega



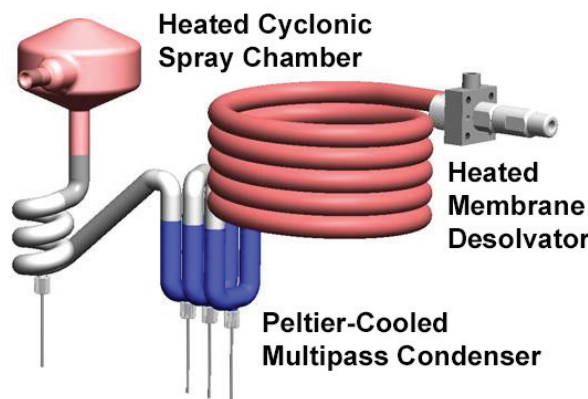
High Sensitivity Sample Introduction Systems

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.

- **Increases 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



Custom temperature settings for heaters and cooler.

