



apex 2

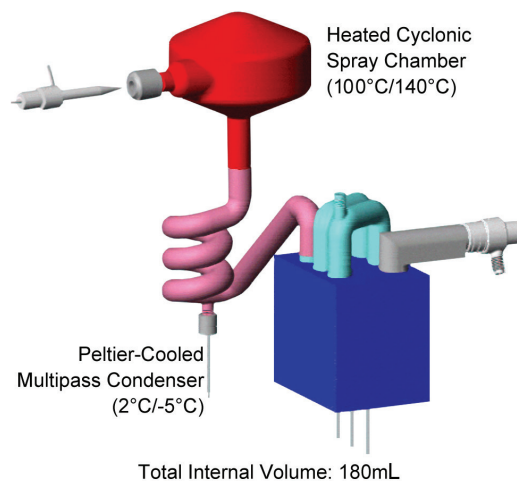
High Sensitivity Sample Introduction System

apex 2 High Sensitivity Sample Introduction System

The next generation of the highly successful apex 2 system features software control of temperatures for the heated spray chamber and Peltier-cooled condenser.

The system maximizes ICPMS sensitivity, up to 10x, by nebulizing liquid samples into a heated cyclonic spray chamber. The multi-stage Peltier-cooled condensing system removes the solvent vapor, reducing the oxides.

- **Increases sensitivity** by 3x to 10x, depending upon sample flow rate
- **Have complete software control of:**
 - Heated spray chamber temperature
 - Peltier-cooled condenser temperature
 - N₂ addition gas mass flow controller
 - Ar addition gas mass flow controller
 - Drain micro peristaltic pump
- **Reduces oxides** (1% CeO⁺/Ce⁺)



Preset dual temperature settings for heater and cooler. Patented flow path design ensures rapid wash-in / washout.

US Patent # 6864974



Optional Membrane Desolvation

The addition of the ACM or Spiro can further dramatically reduce the amount of water vapor in the aerosol, reducing oxide interferences. Two membrane units are available for use with the apex systems:

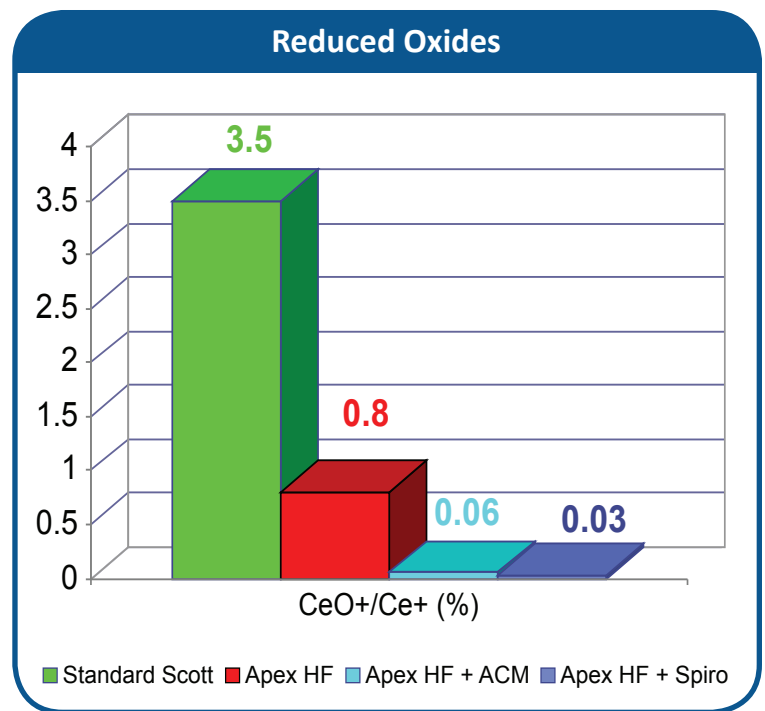
- **Spiro TMD** Heated Macro-Porous membrane
- **ACM** Cooled Micro-Porous membrane



Spiro TMD Module



ACM Module



Reduced Oxides

The addition of the ACM or Spiro can further dramatically reduce the amount of water vapor in the aerosol, reducing oxide interferences.