

Apex Sample Introduction System for the PE Optima ICPAES

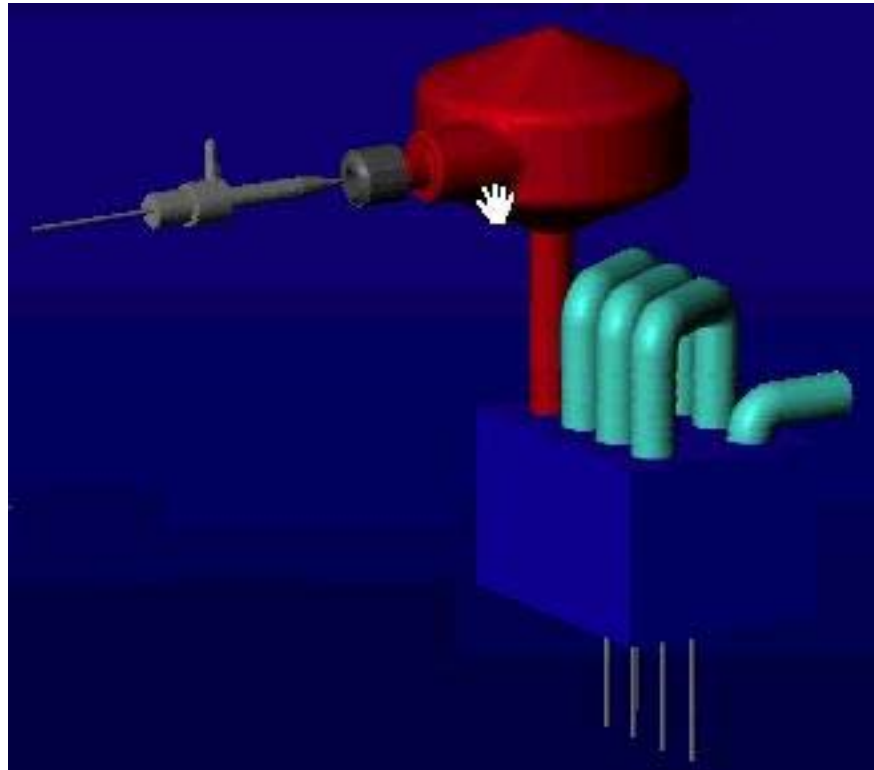
- High sample transport efficiency
- High Sensitivity at Low Flow Rates (300 $\mu\text{L}/\text{min}$)
- Aqueous samples or organic solvents
- Low Background
 - Self aspirating PFA nebulizer
 - Inert, O-ring-free flow path
- Quartz or HF resistant



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Apex Block Diagram



**Heated Cyclonic SC
(120-140C)**

**Peltier-Cooled
Multipass
Condenser
(2C-5C)**

Total Internal Volume 180 ml



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Apex Q with PE Optima 2000

- Compatible with both low and high flow nebulizers.
- 50% higher signal intensity for Apex at 300 $\mu\text{L}/\text{min}$ vs. cyclonic spray chamber and 1.7ml/min MiraMist
- Apex reduced spectral interferences from organic solvent
- O-ring-free sample path reduces maintenance and eliminates a source of potential contamination.
- Self-aspirate with AS-93 autosampler

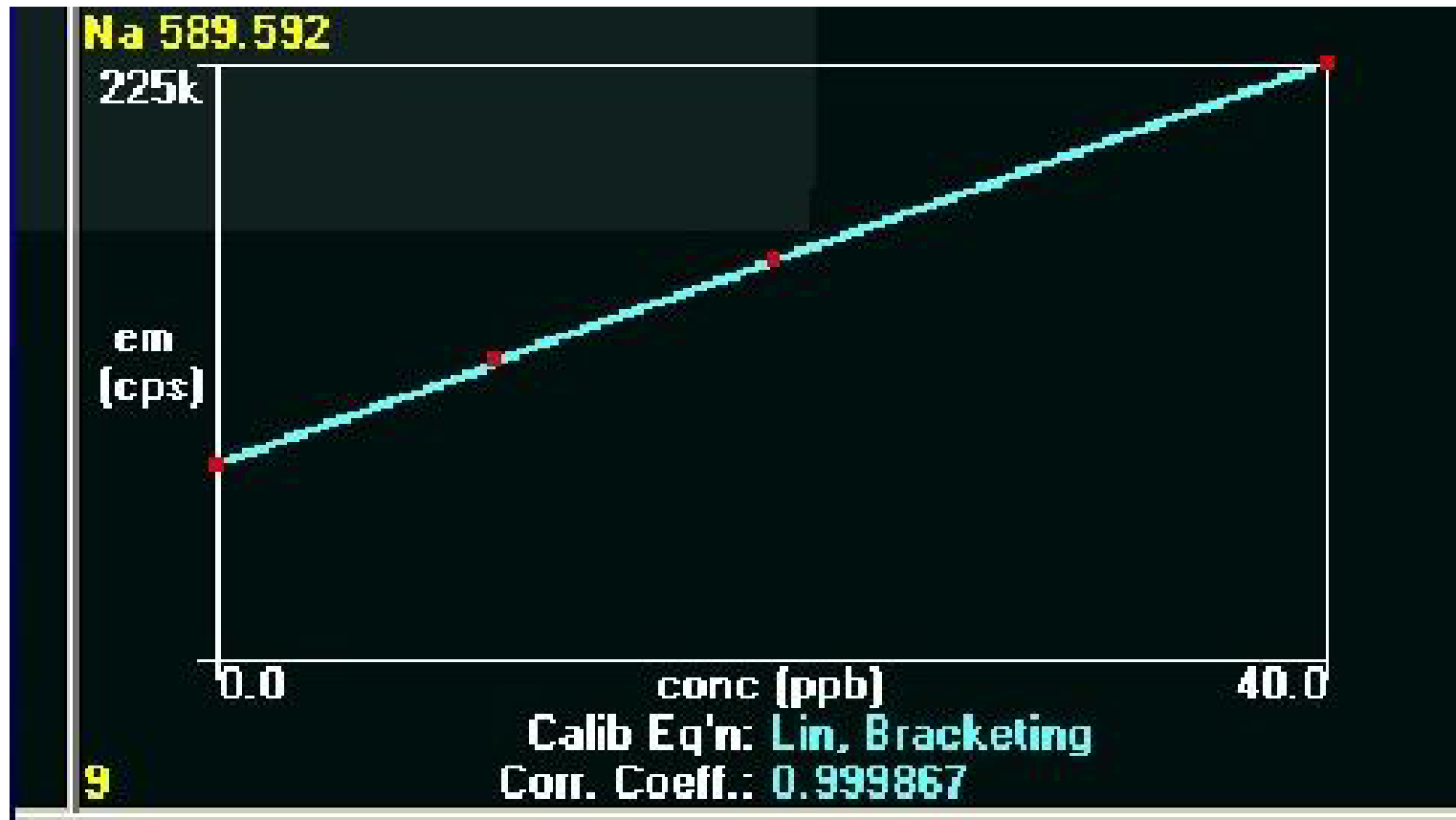


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Sodium Calibration in Photoresist Stripper

10 ppb, 20 ppb, and 40 ppb Spikes



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