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PC^{3x} Peltier Controlled Cyclonic Chamber

Thermally stabilized inlet system for ICP-OES or ICPMS

Summary

The PC^{3x} is a compact Peltier heated and cooled inlet system which incorporates the ESI cyclonic spray chamber. The PC^{3x} heats or cools the outer walls of the cyclonic spray chamber, reducing the water or solvent vapor loading on the plasma, resulting in enhanced stability and performance. The PC^{3x} can be connected to any ICP-OES or ICPMS.

The spray chamber can incorporate any 6 mm nebulizer and is ideally suited to the PFA-ST Microflow nebulizer.

Benefits

- Temperature control from -10 °C to +80 °C
- Heating function to increase sensitivity
- Cooling function to reduce solvent-related interferences
- Thermal stabilization of spray chamber improves long-term stability
- Stability to ±0.1 °C
- Temperature logging feature
- Last set temperature saved for stand alone operation
- USB or Bluetooth connectivity
- Remote monitoring and control
- Fast rinse-out using PFA-ST nebulizer and o-ring-free cyclonic spray chamber
- PC^{3x}-SSI model for isotope ratio determination or other high precision analyses
- Completely o-ring-free for organic solvents analysis
- Organic solvent analysis using PFA-50 nebulizer
- Aqueous sample analysis using PFA-ST nebulizer

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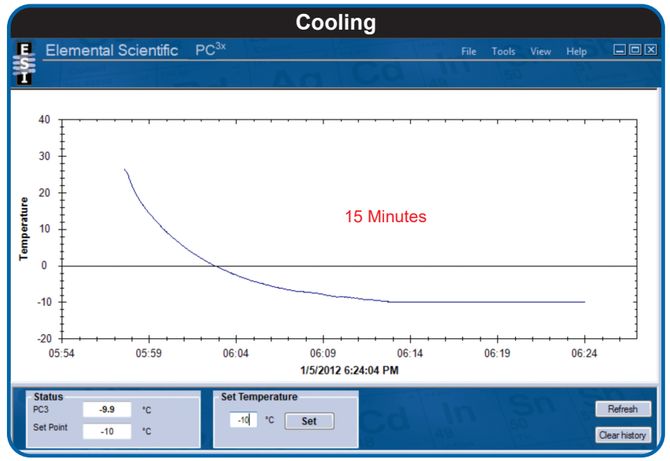
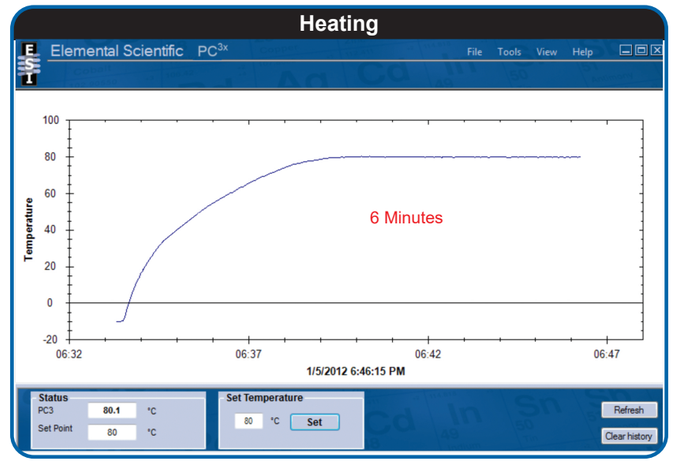
Results



26 °C to -10 °C



-10 °C to 80 °C

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