

# PC<sup>3</sup> Sample Inlet System

Thermally stabilized inlet system for Agilent ICP-MS Systems.

The PC<sup>3</sup> is a compact Peltier Cooled inlet system which incorporates the ESI cyclonic spray chamber. The peltier within the PC<sup>3</sup> is water cooled, and installs easily, replacing the standard peltier cooled Scott spray chamber. The PC<sup>3</sup> reduces the water vapour loading on the plasma resulting in enhance stability and performance. The spray chamber can incorporate any 6 mm nebulizer and is ideally suited to the PFA-ST Microflow nebulizer.



PC<sup>3</sup> Peltier-cooled cyclonic spray chamber for Agilent ICPMS.

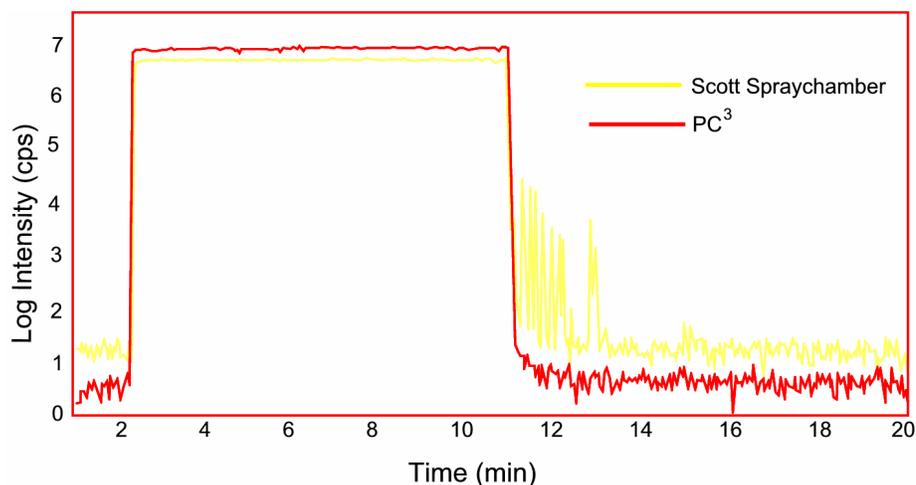
## PC<sup>3</sup> Advantages:

- Thermal stabilization of spray chamber improves long-term stability.
- O-ring free spray chamber for reduced background and contamination.
- Increased throughput due to faster rinse out of cyclonic chamber compared to Scott chamber.
- User-selected control of spray chamber temperature (+2 °C/ -5 °C) for aqueous or organic solvents.
- Optional oxygen gas port for organic solvent analysis.
- Interchangeable quartz, polypropylene and borosilicate cyclonic spray chambers available.
- Fast rinse-out using PFA-ST nebulizer and O-ring-free quartz cyclonic spray chamber.
- Reduced oxides
- Robust, with very little maintenance reducing the chance of accidental breakage
- Long lifetime

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The PC<sup>3</sup> will rinse out 5 orders of magnitude, 10ppb to 1ppt, of analyte in less than 30 seconds compared to the 3 minutes it takes the standard Scott spray chamber.

## Ordering Information

### PC<sup>3</sup> Kit for HP4500

ES-4161-0001-29

### PC<sup>3</sup> Kit for Agilent 7500

ES-4162-0001-29

### Kit Includes:

- Water cooled PC<sup>3</sup> Unit.
- Quartz cyclonic spray chamber with additional gas port (Borosilicate or Polypropylene spray chamber can be specified).
- PFA-ST MicroFlow nebulizer.
- Gas Lines and connectors.

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