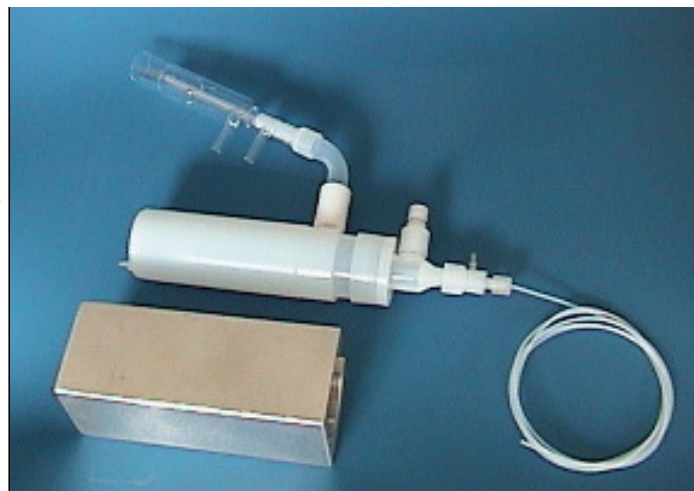


# PFA High Purity Sample Introduction System for Thermo ICP-MS Systems

Inert sample introduction technology for improved background and detection limits

An easy to install, inert, high purity, o-ring free upgrade kit which includes two PFA MicroFlow nebulizers, PureCap endcap, PureChamber PFA spray chamber, adapter, o-ring free injector and precision quartz torch. A reliable ultra pure analysis technology to complement Thermo ICP-MS systems



**ES-2191-0350 Thermo PFA high purity sample introduction system**

- Easy installation on all Thermo ICP-MS systems.
- Clean Teflon® PFA components for lower background equivalent concentration (BEC) and detection limits.
- O-ring free connections —ensures lowest BEC's, highest chemical resistance and easy cleaning.
- Chemically resistance—suitable for nearly all samples, including strong acids, alkalis and organic solvents.
- Sapphire or platinum injector.
- Two self-aspirated or pumped PFA nebulizers included.
- Low sample consumption—ideal for VPD and preconcentrated samples
- Aluminum cooling block for improved stability and low maintenance.

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## Ordering Information

The ESI upgrade kit directly adapts to the Thermo sample introduction area. Three main configurations are available to meet the needs of most ICP-MS applications.

**Sapphire Upgrade Kit**—Includes a 1.8mm sapphire injector, ideal for high purity and low background applications

ES-2190-aVG0-xx where     a = 0 for no aluminium block,  
  a = 1 to include aluminium block,  
  VG = 35 for PQ series ICP-MS  
  VG = 47 for X-Series ICP-MS

**Platinum Upgrade Kit**—Includes a tapered 2mm Pt injector, improved performance for sub to low ppt determination

ES-2191-aVG0-xx

**Organics Upgrade Kit**—Includes two PFA-20 nebulizers, ideal for direct analysis of volatile and non volatile organic solvents

ES-2195-aVGi-10 where     i = 0 for 1mm organic quartz injector  
  i = 6 for 1mm organic sapphire injector

xx = nebulizer option

xx = 10	PFA-20	PFA-20	xx = 17	PFA-50	PFA-400
xx = 11	PFA-20	PFA-50	xx = 18	PFA-50	PFA-ST
xx = 12	PFA-20	PFA-100	xx = 19	PFA-100	PFA-100
xx = 13	PFA-20	PFA-400	xx = 20	PFA-100	PFA-400
xx = 14	PFA-20	PFA-ST	xx = 21	PFA-100	PFA-ST
xx = 15	PFA-50	PFA-50	xx = 22	PFA-400	PFA-400
xx = 16	PFA-50	PFA-100	xx = 23	PFA-400	PFA-ST
			xx = 24	PFA-ST	PFA-ST

All Agilent kits also include:

- 2 PFA self-aspirating MicroFlow Nebulizers
- 1 PFA o-ring free PureCap endcap
- 1 PFA PureChamber spray chamber
- 1 Precision Quartz torch
- 1 HF resistant injector
- All gas lines and connectors

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