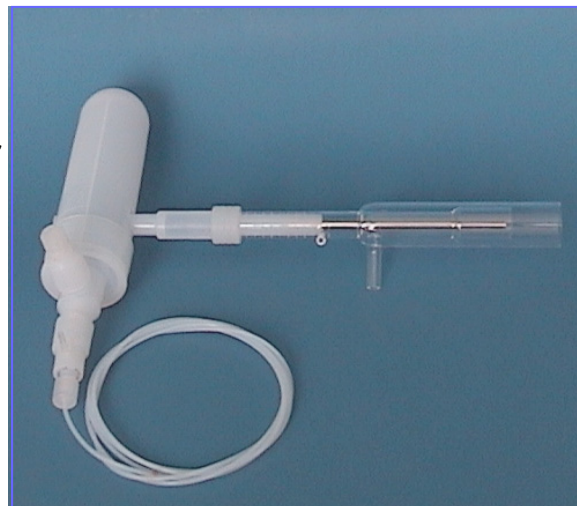


## PFA High Purity Sample Introduction Systems

Inert sample introduction technology for improved background and detection limits

Easy to install, inert, high purity, o-ring free upgrade kit which includes two PFA MicroFlow nebulizers, PureCap endcap, 35mm PureChamber PFA spray chamber, adapter, o-ring free injector and precision quartz torch. A reliable ultra pure analysis technology to complement ICP-MS systems

- Easy installation on most ICP-OES & 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



**All Teflon, o-ring-free full upgrade kit for ICP-MS systems.**

## Ordering Information

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

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

ES-2160-zz00-xx where zz = instrument type

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

ES-2161-zz0i-xx where i = 0 for 2mm Injector;  
i = 5 for 1.5mm injector

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

ES-2165-zz0i-10 where i = 0 for 1.5mm quartz injector;  
i = 5 for 1.8mm sapphire injector;  
i = 6 for 2mm platinum injector

### xx = nebulizer options

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

### zz = instrument

zz = 50	Generic	zz = 65	Varian Vista/Vista Pro
zz = 51	Finnigan Element 1	zz = 66	Varian Liberty
zz = 52	Finnigan Element 2	zz = 79	Varian ICP-MS
zz = 53	Finnigan Neptune	zz = 67	Spectro Cirros
zz = 54	PE Elan 5000/6000/9000/DRC	zz = 68	TJA ICPOES Axial
zz = 55	PE Optima 3000 Radial	zz = 71	TJA Radial
zz = 56	PE Optima 3000 XL/DV	zz = 69	Seiko ICPMs
zz = 57	PE Optima 2000/4000	zz = 70	Seiko ICPOES
zz = 58	VG Axiom	zz = 75	Micromass PT2
zz = 59	VG PQ	zz = 76	JY Ultratrace
zz = 60	VG X series	zz = 81	JY Radial
zz = 61	Agilent 4500	zz = 77	Leeman DRE (Axial)
zz = 62	Agilent 7500	zz = 78	Leeman Radial
zz = 63	GV Isoprobe	zz = 80	ARL 3500 series
zz = 64	GV Platform	zz = 82	NU Instruments

All PFA upgrade 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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