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Elemental Scientific Inc. 2008 Catalog

## **HPLC and Laser Nebulizers**

## **PFA-LS Laser Ablation Nebulizer**

Many laser ablation studies involve the introduction of a liquid standard aerosol for performing mass calibrations, ICP optimization etc.

The PFA-LS has been designed so that it produces a fine aerosol at low nebulizer gas flow rates (0.2—0.3L/min) allowing more sample gas to pass through the laser ablation chamber.



	i.d.	self-aspiration rate (@1L/m Ar)	
ES-2020-2000	PFA-20	20 μL/min	(red)
ES-2000-2000	PFA-50	50 μL/min	(purple)
ES-2002-2000	PFA-100	100 μL/min	(green)
ES-2003-2000	PFA-200	200 μL/min	(yellow)
ES-2005-2000	PFA-400	400 μL/min	(orange)

## **PFA-LC for Liquid Chromatography**

The PFA-LC nebulizer has a smaller internal capillary than the standard ST type nebulizers. The small dead volume ( $<3\mu$ L) reduces band broadening effects, once a peak leaves the column.

Supplied with common HPLC fittings for zero dead volume connections to the HPLC system. Suitable for both micro and standard flow chromatography.



ES-2050 PFA-LC Nebulizer

## **Obstruction Removal Kit**

Designed specifically for PFA-ST and PolyPro-ST nebulizers to remove clogs. Includes one guide, 10 pieces of fused silica and instructions. For use with ST type nebulizers only. Not necessary for High Solids nebulizers.



ES-2046-0001 Obstruction removal kit
ES-2046-0003 Replacement guide for obstruction removal kit
ES-2046-0002 10 piece fused silica refill for obstruction removal kit
ES-2010 Silica, 50µm i.d. x 650mm
ES-2012 Silica, 75µm i.d. x 650mm