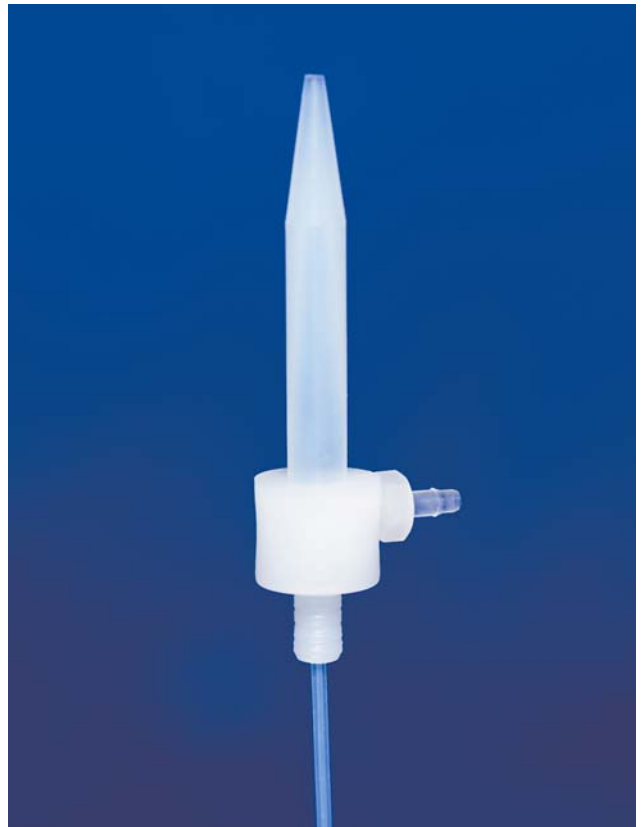


PFA Micro-Flow Nebulizer

New sample introduction technology
for ICPMS and ICPAES

- ▲ Constructed entirely from chemically resistant Teflon[®]
- ▲ Chemically resistant—ideal for strong acids, alkalis, organics
- ▲ Resistant to clogging—reliably self-aspirated or pumped
- ▲ Longer lifetime than glass or quartz nebulizers
- ▲ Direct analysis of volatile and non-volatile organic solvents
- ▲ Low, spike free background for important elements such as Fe and Ca
- ▲ Produces a fine aerosol for high transport efficiency and sensitivity
- ▲ Analyze all sample types with a single introduction system
- ▲ Directly replace any 6mm (Meinhard) type nebulizer
- ▲ Available with integrated probes to support most autosamplers



MicroFlow PFA-100 Nebulizer

PFA Micro-Flow

The right nebulizer technology

- ▲ Produces a fine aerosol for high transport efficiency and high sensitivity.
- ▲ Low BECs even for concentrated high-purity acids (e.g. 49% HF, 69% HNO₃).
- ▲ Direct analysis of volatile and non-volatile organic solvents.
- ▲ Ideal for VPD samples, high purity peroxide, and ammonia.



Specifications:

Self-aspiration flow rate (1L/m Ar)	PFA-20	20-35 µL/min
	PFA-50	50 µL/min
	PFA-75	75 µL/min
	PFA-100	100 µL/min
	PFA-200	200 µL/min
	PFA-400	400 µL/min
Construction Materials	Nebulizer: PFA, PTFE, FEP Gas Fitting: PVDF	
Gas pressure requirement	< 60 psi (4 bar) @ 1 SLPM Ar	
Nebulizer O.D.	6mm, may be used with any standard 6mm spray chamber	
All models may be self-aspirated or used with peristaltic pump		

Table 1. Background equivalent concentration (BEC) and detection limits (DL).

Isotope	BEC (ppt)	DL (ppt)
²³ Na	0.8	0.09
²⁷ Al	0.2	0.06
³⁹ K	0.3	0.05
⁴⁴ Ca	0.9	0.5
⁵⁶ Fe	0.2	0.07
⁶³ Cu	0.2	0.08
⁶⁴ Zn	0.6	0.1

PFA-100, Finnigan *ELEMENT* ICP-MS, class 10 cleanroom

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