

PolyPro-ST Nebulizer

High Performance, HF-Resistance Nebulizer for ICP and ICPMS



**ES-4040 PolyPro-ST
MicroFlow Nebulizer**

- Polypropylene construction
- Hydrofluoric acid resistant
- Longer lifetime than glass or quartz nebulizers
- Exchangeable self-aspiration capillaries
 - 20, 50, 100, 200 or 400 $\mu\text{L}/\text{min}$
 - Zero dead volume o-ring-free connection
 - External interface for easy maintenance
- 0-3 mL/min sample flow rate with peristaltic pumping
- Resistant to clogging and accidental breakage
- Directly replace any 6 mm nebulizer
- Inert probes available to support most autosamplers

PolyPro-ST Nebulizer

HF-Resistant MicroFlow

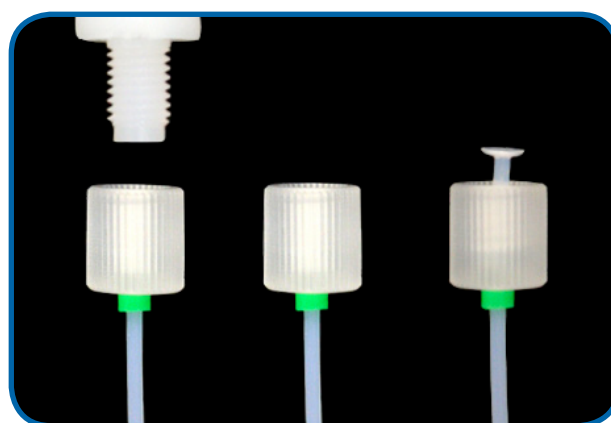
- Analyze all sample types with a single introduction system
- Seawater and other high dissolved solids samples
- Self-aspirate volatile and non-volatile organic solvents
- Soil and geological samples dissolved in hydrofluoric acid
- High purity acids and chemicals



A variety of alternate flanged PFA sample capillaries and autosampler probes are available for the PFA-ST Nebulizer. Sample capillaries are easily and securely attached to the nebulizer using a threaded, zero dead volume flanged fitting.

Sample uptake tubing dimensions control PFA-ST MicroFlow nebulizer self-aspiration rates:

Part Number	I.D.	Self-aspiration Rate (@1L/m Ar)
ES-2045	0.15 mm	20 μ L/min ■ (red)
ES-2043	0.20 mm	50 μ L/min ■ (purple)
ES-2042	0.25 mm	100 μ L/min ■ (green)
ES-2047	0.30 mm	200 μ L/min ■ (yellow)
ES-2041	0.50 mm	400 μ L/min ■ (orange)
ES-2044	0.80 mm	700 μ L/min ■ (blue)
ES-2049	1.00 mm	1 mL/min ■ (gray)



Use one of the sample uptake capillaries or autosampler probes for self-aspiration or directly attach peristaltic pump tubing to the MicroFlow PFA-ST nebulizer.