Introduction to Glass Expansion Nebulizers

The nebulizer is a critical component of your ICP sample introduction system, so why not opt for the highest quality? Glass Expansion has been manufacturing ICP nebulizers since the early 1980s and continually updates nebulizer designs to improve performance and ease of use. Our proprietary designs include a thick walled VitriCone capillary, UniFit sample line connector and the Direct Connect (DC) product line.

Whether your ICP laboratory is analyzing clean aqueous samples, samples containing HF and/or high dissolved salts, or volatile organic solvents; Glass Expansion has a nebulizer to suit your needs. Learn about the performance advantages and overall difference in construction quality that a Glass Expansion nebulizer can provide your ICP laboratory.

Nebulizer Types

Nebulizer	TDS (%)	Particulates (µm)	HF	Precision	Purity	Material
SeaSpray	20	75	No	High	Good	Glass
MicroMist	15	40*	No	High	Good	Glass
Conikal	5	75	No	High	Good	Glass
Slurry	1	150	No	High	Good	Glass
Quartz SeaSpray	20	75	No	High	Excellent	Quartz
OpalMist	15	75*	Yes	High	Excellent	PFA
DuraMist	30	75*	Yes	High	Good	PEEK
VeeSpray	30	300	Yes	Moderate	Good	Ceramic

* Varies with nebulizer uptake

Glass Expansion Nebulizer Part Numbers Explained

Glass DC Nebulizers

Conikal

1mL/min uptake

A13-07-UC1

A#-yy-ZZnnn

A — **Gas pressure rating of 40 psi**

— **Gasline fitting type eg:**
13 = Suitable for Agilent® 5100/5110/5800/5900

yy — **The argon flow in L/min eg. 07=0.7L/min**

ZZ — **Nebulizer model type:**
UC = Conikal U-Series nebulizer
US = Slurry U-Series nebulizer
USS = SeaSpray U-Series nebulizer
UM = MicroMist U-Series nebulizer
CV = Ceramic VeeSpray v-groove nebulizer
DM = DuraMist HF resistant nebulizer
PFA = OpalMist PFA HF resistant nebulizer

nnn — **Aspirated uptake at nominal argon flow, in mL/min eg:**
UC1 = 1mL/min
UM04 = 0.4mL/min
PFA005 = 0.05mL/min