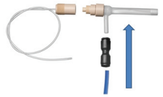
Fitting and Quick Connect Installation Instructions

Agilent 5100 Series ICP-OES

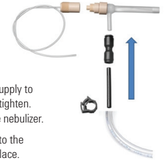
Push the quick release connector onto the gas inlet fitting of the nebulizer until it locks in place.



Insert the tubing for the nebulizer gas supply directly into the free end of the quick release connector until it locks in place.

Agilent 700 Series and PerkinElmer Optima ICP-OES

Push the quick release connector onto the gas inlet fitting of the nebulizer until it locks in place.



Secure the tubing for the nebulizer gas supply to the hose adaptor with the hose clip and tighten. Ensure that the clip faces the back of the nebulizer.

Push the free end of the hose adaptor into the quick release connector until it locks in place.

Open for safety message and instructions

Visit **www.agilent.com/chem/specsupplies** for more information.

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Atomic Spectroscopy

Agilent Nebulizer

for Agilent ICP-OES and MP-AES; and PerkinElmer ICP-OES

Agilent Technologies

Important Notice

Caution: Before applying gas pressure, apply a slight amount of pulling pressure between the nebulizer and the gas supply hose to ensure they are securely locked.

To remove the gas supply tubing, push the release button on the top of the quick release connector and slide off the tube of the hose adaptor.

Recommended settings:
Gas pressure: 1500 m Bar
Gas flow: 0.7 L/min
Liquid uptake range: 0.005 - 2.0 mL/min

Guidelines for Nebulizer Use

- Always connect and disconnect the sample capillary using the plastic connector. Never pull on the free end of the capillary tube
- Solution must be pumped to the nebulizer using a peristaltic pump or alternative pumping device
- Maintain medium-high speed (at least 10 rpm) to minimize signal noise. If working at low solution uptake rates, fit narrow bore pump tubing and run the peristaltic pump at a higher pump speed
- Peristaltic pump tubing should be replaced periodically or when signs of wear are evident
- Always rinse the nebulizer with de-ionized water (or a suitable solvent) for at least a few minutes at the end of your analysis. Remove the liquid and allow the plasma to operate for a short period with no solution flow. Then switch off the plasma.
- To maintain optimum performance, clean the nebulizer weekly.

For more information, refer to the Good Practice and Maintenance Guidelines included with this package.

Cleaning Instructions

To maintain optimum performance, clean the nebulizer weekly by soaking in pure water, dilute detergent solution, or solvent (depending on the application) for at least 30 minutes. Rinse thoroughly and dry by passing a stream of filtered air, argon, or nitrogen through the tip of the OneNeb. If blockages remain, refer to the cleaning and backflushing procedure outlined in the Good Practice and Maintenance Guidelines included with this package.

Caution: Do not use a wire for cleaning.

Nebulizer Installation

Caution: Excessive force may damage the nebulizer. Always connect and disconnect the sample capillary by handling the plastic connector. Ensure that the tip is protected from damage.

Find instructions for inserting the nebulizer into your spray chamber at www.agilent.com/chem/nebulizerinsertion

Agilent Nebulizer
Product Reference Chart

Legend:

E EzyFit connector
U UniFit connector
Lu Low uptake rate
N Normal uptake rate
Hu High uptake rate
H High nebulizer gas flow
Li Suits Liberty ICP-OES models
PES Suits PerkinElmer ICP-OES models
PMS Suits PerkinElmer ICP-MS models

Nebulizer Type	Aerosol Efficiency	Achieved Precision	Tolerance to Dissolved Solids	HF Resistance	Organics Compatibility	Self Aspirates	Ideal Sample Type	Reordering Part Number
OneNeb	Excellent	Excellent	Good	Excellent	Excellent	No	Handles most samples	G8010-60293 • 8003-0951[PES]
SeaSpray concentric	Good	Good	Medium	Poor	Good	Yes	Environmental, soil, and food digests	2010096400[E, N] • G8010-60255[U, N] • CP959366[E, H] • 8003-0954[U, N, PES] 8003-0490[U, Hu, PES] • 8003-0492[U, Lu, PES] • 8003-0964[U, N, PMS]
Conikal concentric	Good	Excellent	Poor to Medium	Poor	Excellent	Yes	Clean oil samples and organic solvents	2010106800[E, N] • G8010-60270[U, N] • 2010081600[Li, N]
MP-AES/Type K concentric	Good	Good	Poor to Medium	Poor	Good	Yes	Handles most aqueous solutions and normal digests	G8000-70004 • 8003-0476[Hu, PES]
Type A concentric	Good	Good	Poor to Medium	Poor	Good	Yes	Clean waters or low TDS	8003-0477[Hu, PES] • 8003-0478[Li, PES]
Slurry/Type C concentric	Good	Medium	Good	Poor	Medium	Yes	Slurries, suspensions, rock digests or high TDS and large particulates	2010097600[E, N] • 2010009770[E, U] • 8003-0461[N, PES] • 8003-0475[Hu, PES] • 8003-0479[Li, PES]
MicroMist concentric for ICP-OES	Good	Good	Poor to Medium	Poor	Good	Yes	Clean waters or low TDS	190064300[E, Lu] * 2010126000[U, Lu] • 8003-0489[U, Lu, PES]
MicroMist concentric for ICP-MS	Good	Good	Poor to Medium	Poor	Good	Yes	Clean waters or low TDS	G3266-65003[E, Lu] • G3266-80004[U, Lu] • G1820-65138[E, Lu] • G1820-65030[Lu] G3138-65134[Lu] • 8003-0589[U, Lu, PMS]
OpalMist/MiraMist	Good	Medium	Good	Good	Medium	No	Slurries, suspensions, rock digests or high TDS and large particulates	8003-0500[Lu, PES] • CP914506