

GemCone and GemTip Nebulizers

GemCone™ Low-Flow Nebulizer

Low-flow GemCones permit lower nebulizer gas flow rates, useful for spectral lines with high excitation energies and for providing a more robust plasma. GemCone Nebulizers require an end cap for use with Scott Spray Chambers.



Description	Part No.
GemCone Low-Flow Nebulizer	N0770358

GemCone High Dissolved Solids Nebulizer

High solids GemCones are for samples with high dissolved solids (up to 20%). This conespray nebulizer allows you to analyze samples with higher solids concentration than is possible with a Cross-Flow nebulizer. GemCone nebulizers require an end cap (Part No. **N0680343**) for use with Scott Spray Chambers.



Description	Part No.
GemCone High Dissolved Solids Nebulizer	N0690670

GemCone Nebulizer Replacement Parts

Description	Part No.
GemCone Sample Capillary Adapter	N0371505
Scott Spray Chamber End Cap for GemCone Nebulizers	N0680504
Quick Disconnect Tubing with Swagelock	N0770336
Quick Disconnect Tubing without Swagelock	N0770610
Capillary Tubing (10 ft.)	09908265
PTFE Capillary Tubing (1 ft.)	09985708

Argon Flow Rates

Nebulizer	Typical Value	Operating Range
GemTip Cross-Flow	0.6 L/min	0.4-1.3 L/min
Low-Flow GemCone	0.6 L/min	0.4-0.95 L/min
High Flow GemCone	1.0 L/min	0.7-1.0 L/min



GemTip Cross-Flow II Nebulizers

Excellent general purpose nebulizer for the analysis of strong mineral acids (including HF) and samples with less than 5% dissolved solids. It can routinely handle 50% (v/v) solutions of HCl, HNO₃, H₂SO₄, H₂PO₄, 20% (v/v) HF and 30% (v/v) NaOH. Up to 20% NaCl can be aspirated by the nebulizer for 1 hour without clogging. Uses chemically resistant GemTips made of sapphire and ruby in a chemically resistant end cap.

ICP Model	Part No.
Optima 8x00 / Avio 200/500	N0780546
Optima 2x00/4x00/5x00/7x00	N0770546

GemTip Nebulizer O-Ring Kit

Description	Part No.
GemTip™ Cross-Flow Nebulizer O-Ring Kit Includes: 09902001 Qty. 2, 09902033 Qty. 2, 09902151 Qty. 3, 09921003 Qty. 1, 3 cm of PTFE Sample Tubing	N9300067

GemTip Cross-Flow II Nebulizer Tip Kits



The Tip Kit includes a clear sapphire sample tip and a red ruby argon tip. The tips are constructed of PEEK with the gem inserts noted for maximum corrosion resistance.

ICP Model	Part No.
Optima 8x00 / Avio 200/500	N0780676
Optima 2x00/4x00/5x00/7x00	N0690676

See next page for GemTip Crossflow II Nebulizer Replacement Parts