

# INDUCTIVELY COUPLED PLASMA-OES

## Slurry™ Nebulizer

Ideal for the analysis of used engine oils for wear metals. A sample which consists of small particulates in liquid matrix is a slurry and is suited to this nebulizer. Includes UniFit Connector with 0.75 mm ID x 1.3 mm OD x 700 mm long tubing (**N0777512**) and EzyLok Connector Kit (**N0777413**).

Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x00/5x00/7x00/8x00 / Avio 200/500			
0.7 L/min	4 mL/min	Glass	<b>N0777488</b>

## VeeSpray™ Nebulizer

The VeeSpray nebulizer is made from alumina ceramic, making it ideal for HF analyses. It provides reproducible performance when working with samples containing large particulates.



Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x00/5x00/7x00/8x00 / Avio 200/500			
0.7 L/min	0.6-3.0 mL/min	Alumina Ceramic	<b>N0777489</b>

## PolyCon™ Nebulizer

For routine high precision analyses involving samples digested in HF and are not high in dissolved solids.



Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x00/5x00/7x00/8x00 / Avio 200/500			
0.7 L/min	2 mL/min	Polymide	<b>N0777490</b>

## DuraMist™ Nebulizer

The DuraMist is an economical nebulizer for high precision analyses involving samples digested in HF. Recommended for samples containing up to 5% HF.



- The DuraMist is made from PEEK and can tolerate a wide variety of solvents including HF\*
- High sensitivity and excellent precision due to concentric design and rigid construction
- High tolerance to dissolved solids (typically up to 30%) due to smooth surface of capillary and nebulizer tip

\* The DuraMist nebulizer is recommended for samples containing up to 5% HF. For samples with higher concentrations of HF, the OpalMist PFA nebulizer is an option

Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x00/5x00/7x00/8x00 / Avio 200/500			
0.7 L/min	0.4 mL/min	PEEK	<b>N0777713</b>
0.7 L/min	1.0 mL/min	PEEK	<b>N0777714</b>

## OpalMist™ Nebulizer

For high precision analyses requiring the highest chemical resistancy of HF, alkalis and organics. The OpalMist is capable of aspirating high concentrations of dissolved solids without clogging. An ideal nebulizer to handle geochemical samples which are typically dissolved in HF and are high in dissolved solids.



Ar Flow Rate	Uptake Rate	Material	Part No.
Optima 4x00/5x00/7x00/8x00 / Avio 200/500			
0.7 L/min	0.6 mL/min	PFA	<b>N0777735</b>
0.7 L/min	0.05 mL/min	PFA	<b>N0777738</b>
0.7 L/min	0.1 mL/min	PFA	<b>N0777737</b>
0.7 L/min	0.2 mL/min	PFA	<b>N0777736</b>
0.7 L/min	2 mL/min	PFA	<b>N0777734</b>

## Mira Mist® and Ari Mist Nebulizers

The PEEK Mira Mist handles most liquids, most flow ranges used in ICP and is one of the most rugged, and longest life nebulizers due to its outer body being strong PEEK material. The Ari Mist has a very low sample flow, enhanced parallel path design. Standard pressure (40-50 psi). Black PEEK body, PTFE sample and gas capillaries. Can operate on 0.050 mL/min to 1.0 mL/min. Only for samples that are particulate free.



Description	Uptake Rate	Part No.
Optima 4x00/5x00/7x00/8x00 / Avio 200/500		
PEEK Mira Mist Excellent mist, and can handle high level of particulates in sample	0.2 to 2.5 mL/min	<b>N0775330</b>
PTFE Mira Mist For samples with high HF, Sulfuric, and some other solvents that attack PEEK	0.2 to 2.5 mL/min	<b>N0777031</b>
PEEK Ari Mist Very low sample flow, enhanced parallel path design	0.050 to 1.0 mL/min	<b>N0777032</b>

## Mira Mist® and Ari Mist Nebulizer Replacement Parts

Description	Pkg.	Part No.
0.5 m, 0.44 in. OD x .018 in. ID	1	<b>N0777111</b>
0.5 m, 0.44 in. OD x .018 in. ID	10	<b>N0777112</b>
2 mm Gas Line with Upchurch Fittings	1	<b>N0777113</b>
Mira Mist Quick Release	1	<b>N0777114</b>
1/4 in. Adapter	1	<b>N0777115</b>
0.44 in. OD x .018 in. ID Polyethylene Tubing 3 m	1	<b>N0777116</b>
0.44 in. OD x .018 in. ID Polyethylene Tubing 30 m	1	<b>N0777117</b>