

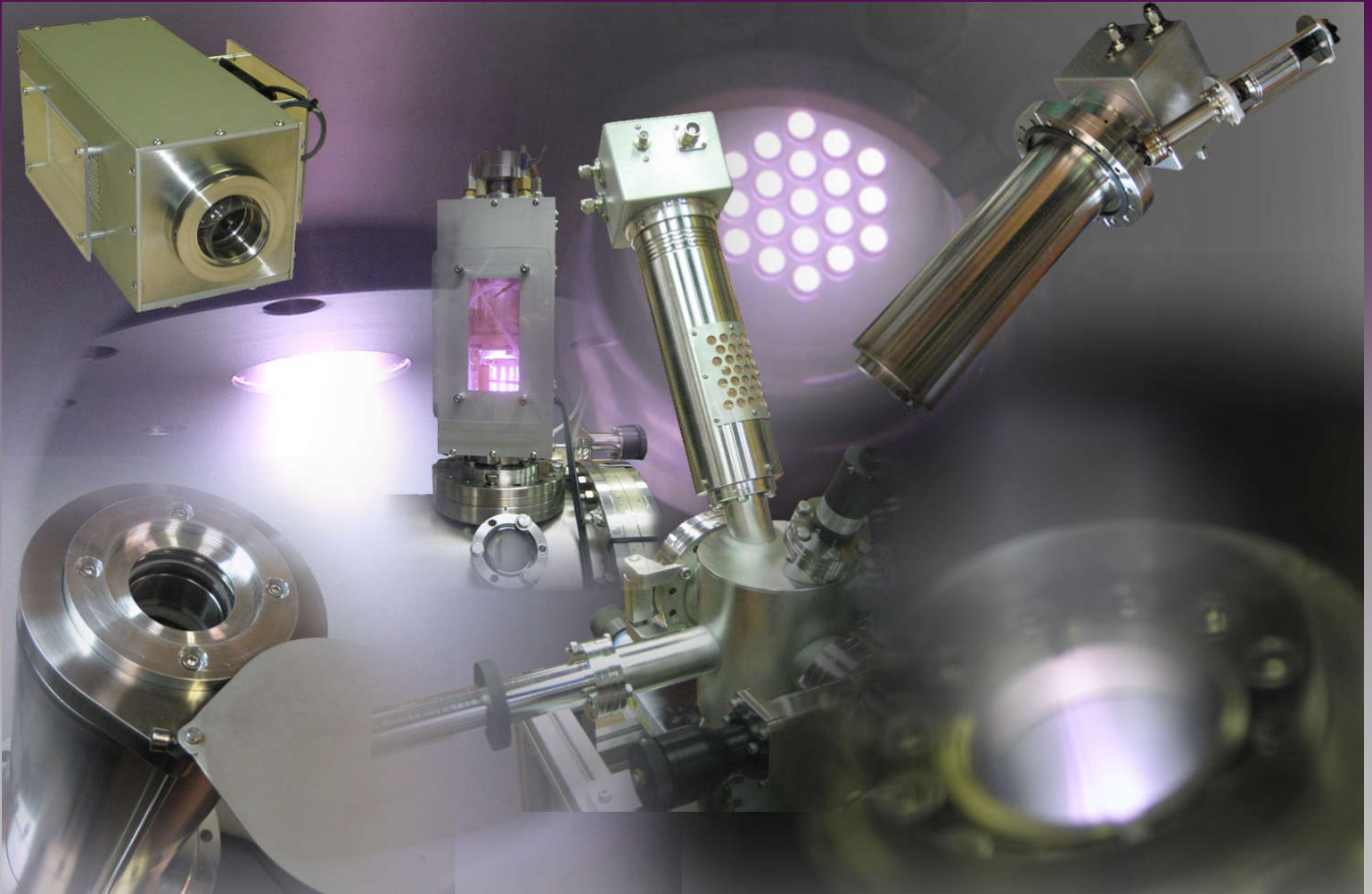


Advancing Plasma-Based Technologies

# **PLASMIONIQUE**

À l'Avant-Garde des Technologies Plasma

## ***PLUME Series ICP PLASMA and ION SOURCES***



PLUME Series ICP Plasma and Ion sources are highly versatile and could be adapted to variety of applications. PLUME series sources could be used as remote plasma sources or immersed plasma source for powder or in-line surface treatment. With beam extraction module inclusion current densities up to 6 mA/cm<sup>2</sup> could be achieved. Application examples include plasma surface cleaning, surface functionalization, ion assisted deposition, plasma polymerization, plasma assisted ALD, PECVD, IBAD and variety of other applications. PLUME sources could also be configured as Ion or Neutral Atom source.

**[www.plasmionique.com](http://www.plasmionique.com)**

**[info@plasmionique.com](mailto:info@plasmionique.com)**

Plasmionique Inc., 1650 boul. Lionel-Boulet Varennes, QC, Canada J3X 1S2  
T: (514) 228 6931 F: (450) 929 8102

# Characteristics of *PLUME* Series ICP SOURCES

*PLUME* Series sources are offered in variety of sizes and configurations, customized to fit your specific applications. Only two examples are given below. Contact us for your requirements or additional details.

	<b>ICRPS-300</b>	<b>ICRPS-600/1000</b>
<b>Plasma Source Diameter</b>	User Defined (Typical 1" to 2.5" increment of 1/4" )	User Defined (Typical 1.5" to 4" increment of 1/4" )
<b>Operation Pressure Inside Source</b>	~ 5 mtorr to > 5 torr	~ 5 mtorr to >5 torr
<b>RF Power / Frequency / Mode</b>	300W / 13.6 MHz/ Continuous and Pulsed	0.6/1kW / 13.6 MHz/ Continuous and Pulsed
<b>Bake Temperature</b>	250 °C UHV version 100 °C Standard Version	250 °C UHV version 100 °C Standard Version
<b>In vacuum length</b>	Flush to User Defined	Flush to User Defined
<b>Gas Injection Zones</b>	1 or 2 (PLUME-D)	1 or 2 (PLUME-D)
<b>Faraday Filter option</b>	available	available
<b>Shutter Option</b>	Yes	Yes
<b>Mounting Flange ID</b>	Customized	Customized
<b>Air cooling</b>	Yes	Yes
<b>Water Cooling Requirement</b>	About 0.5 GPM	About 1 GPM
<b>Insitu Diagnostics Option</b>	Plasma ON/OFF Detection, OES	Plasma ON/OFF Detection, OES
<b>Collimator /Flow Control Option (e.g. for MBE)</b>	Yes	Yes
<b>Beam Extraction Grids Kit</b>	Yes	Yes
<b>Control System Option</b>	Yes	Yes
<b>Turn-Key System Option</b>	Yes	Yes

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