



Table-Top and Compact Systems Sputtering, Evaporation, PECVD, RIE and ALD



Advanced compact, versatile table-top systems for applications to thin film deposition, surface activation, and plasma etching or deposition

- ICP, CCP or MW plasma reactors, with option to include substrate biasing with ICP and MW plasma, for Compact version and MW plasma for the Table -Top
- Magnetron sputtering (RF or DC) with biasing option
- Seamless conversion of Plasma reactor to Sputtering source (vice-versa)
- Thermal evaporation boats and low temperature effusion cells
- Atomic Layer Deposition
- Sophisticated process control software with safety interlocks and alarms
- Data acquisition, remote access, touch screen or independent laptop included

www.plasmionique.com



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Table Top Systems' Specifications

Chamber	 5" to 8" diameter Stainless steel Option for D-shaped chamber with hinged door. Option for GLOVE-BOX version (compact series only)
Vacuum System	 Mechanical pump for vacuum in mTorr range Turbo Option for microTorr base pressure Required gauges for pressure measurement and control
Substrate/Sample Mount	 Samples up 1" to 6" diameter—Application dependent Option for rotary and planetary Options for Heating and biasing
Process Options: Magnetron Cathode Evaporation boats LT Effusion Cells Plasma Source (ICP or CCP) ALD (+ CCP option)	 Sputtering (MAGNION Series): Easily switched with plasma source. ⇒ Circular target 1", 2" or 3"diameter, metallic or dielectric. Multicathodes (up to 3) configuration for 1" magnetrons ⇒ Operation with RF (13.56 MHz) or DC and Computer controlled switch for multi-cathodes configurations ⇒ Continuous or pulsed operation modes Evaporation EVAD series ⇒ Low Temperature Effusion cells, Resistive Heated Boats, etc. Plasma Sources ⇒ Inductively Coupled Plasma ⇒ Capacitively-Coupled Plasma (CCP) ⇒ Microwave Plasma ▲ Up to 4"substrate ⇒ Upto 350 °C
Gas Management	 One mass flow control included. Two Precursor cylinder for ALD, or more (for Compact series) Option for up to three MFC available Upstream PID pressure control Purge/vent line
Process Control System With Computer or integrated Touch Screen	 PLASMICON LabView®-based monitoring and control software Intuitive graphical interface Plotting and data-logging, recipe recall Program mode for programming multi-step processes Alarms and safety interlocks, emergency shut-off Remote Assistance Interface
Supply Requirements	 Electrical: 115V/240 60Hz /50 Hz Cooling water: min 0.3 gpm (1.0 L/min), 18-25 °C Instrument air: max 60 psig Process gases with regulators + Purge/vent gas, regulated CSA certified, CE

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