Advancing Plasma-Based Technologies

# PLASMIONIQUE

À l'Avant-Garde des Technologies Plasma

## *EVAD Series*

## Thermal Vapour Deposition Systems


**Controlled evaporation of metals, dielectrics and organic materials using E-beam, Evaporation boats and Effusion cells for application to thin film deposition and epitaxial growth of materials. Large or table-top units with full computer controlled features allows thickness control with high precision. Glovebox integration also available.**

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# *EVAD Series Specifications*

| | |
|---|---|
| Chamber | • Stainless steel<br>• Vertical cylindrical, D-shape or split chamber design<br>• Custom designed |
| Vacuum System | • Turbomolecular or Cryogenic pumping system<br>• Dry scroll or two stage mechanical backing pump<br>• Wide-range gauge for pressure measurement (atm to $10^{-9}$ torr)<br>• Gate valve for chamber isolation |
| Substrate/Sample Holder | • User defined size<br>• Heated mounting plate with PID control of temperature<br>• Adjustable vertical position |
| Evaporators | <u>For metals:</u><br>• Boats chosen to suit material with dedicated Power Supply<br>• Multi-pocket e-beam with different crucible sizes<br>• Feedback control of evaporation rate via quartz microbalance deposition rate monitor<br><u>For organics and LT evaporators:</u><br>• Knudsen effusion cell, resistive heating to over 800 ºC<br>• Crucible material chosen to suit application<br>• PID control of evaporation temperature<br>• Power supply to 12VDC, 12A (typical)<br>• Integral shutter, manual or automatic<br>• Optional cooling |
| Process Control System | • LabView®-based monitoring and control software<br>• User-friendly graphical user interface<br>• Plotting and data-logging<br>• Program mode for programming multi-step processes<br>• Alarms and safety interlocks, emergency shut-off |
| Supply requirements | • Power: 120 VAC/208VAC/ 60Hz / 3 or local standards<br>• Cooling water<br>• Pressurized air (for pneumatic gate valve): 40-60 psig<br>• Purge/vent gas valve |

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