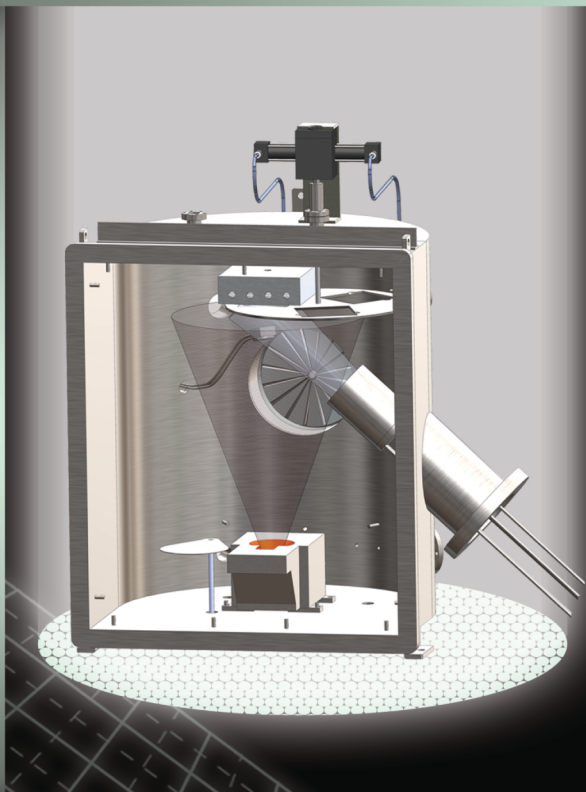


# COMBINATION SYSTEM SERIES

## ELECTRON BEAM EVAPORATION ION BEAM ASSISTED DEPOSITION

### STANDARD FEATURES:

Electro-Polished Stainless Steel Chamber (D-Shaped Box)  
4" Diameter View Port on Front Door with Manual Shutter  
Single / Multi pocket E-Beam Source with Water Cooled Crucible (4cc up to 75cc) with Individual Shutter  
High Voltage Power Supply (3kW to 15 kW) with X-Y Sweep Controller  
Turbo Molecular Vacuum Pumping System with Matching Dual Stage Rotary Vane Pump  
Quartz Crystal Thickness Sensor with Deposition Controller  
Full Range Vacuum Gauge with Digital Display & Readout  
Ion Beam Assisted Deposition with Divergent Beam Ion Source & Power Supply  
115mm Substrate Stage  
PLC Controlled System



OPTIONAL FEATURES:

Water Chiller  
Load Locked System with Sample Transfer Adaptability  
Multi-Axis Substrate Stage Rotation  
Quartz Lamp Heater (from 300° C up to 800° C)  
Planetary Substrate Stage  
Motorized Shutter Assembly  
PC Controlled System  
Water Cooled Substrate Stage  
Adjustable Size & Height Available for Substrate Stage  
SQC 310 Film Thickness Monitor & Deposition Controller  
In-Situ Mask Change  
Large Capacity Crucible & Power Supply  
Dry Scroll Pump  
Cryo Pumping System  
Cold Cathode or Hot Cathode Ionization Gauge  
Additional Spare Flanges for Future Upgrades



1 Torr = 1 mm Hg

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