

IONEC - ion sputter gun

MODEL IG70DP AND IG70
WITH EXCHANGEABLE APERTURES

CONVENTIONAL ION SPUTTER GUN
FEATURING UNIQUE PERFORMANCE:

PRECISION SPUTTERING FOR SAMPLE
CLEANING AND DEPTH PROFILING

LOW OPERATING GAS PRESSURE:
 10^{-6} - 10^{-7} TORR

WIDE RANGE OF ION BEAM
DIAMETERS AND SAMPLE DISTANCES

LONG LIFE 2 FILAMENTS

VARIETY OF OPERATING GASES:
NOBLE - REACTIVE



Surface - Vacuum Analytical Instruments & Technology

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IONEC- Model IG70 and Model IG70DP

SPECIFICATIONS:

Ion Source.....	Electron impact ionization in magnetic field
Ionization Cathode.....	Tungsten - rhenium filament
Beam Current.....	directly mounted on the 70 mm O.D. CF flange
Beam Energy.....	up to 20 μ A
Beam Size.....	0 - 3.0 keV
Beam Uniformity.....	from 5 to 25 mm in diameter
Gas Input.....	Less than 5%
Mounting.....	Direct gas input to ion source via leak valve
Bakeability.....	23/4" (70 mm) O.D. CF flange
	Under vacuum - 250 °C max.

Precision Power Supply, Model IPS3

Outputs.....

Filament current: 3.5A max
 Grid voltage: 100 - 200V
 Beam voltage: 0 - 3kV
 Beam Energy and Emission Current
 10 turn potentiometer for Beam Energy and
 Filament Current
 Short circuit, arc and overvoltage protection
 115V, 60 Hz standard
 International range:
 100/120/220/230/240 V AC, 47-440 Hz
 19" Rack mount

Monitoring.....

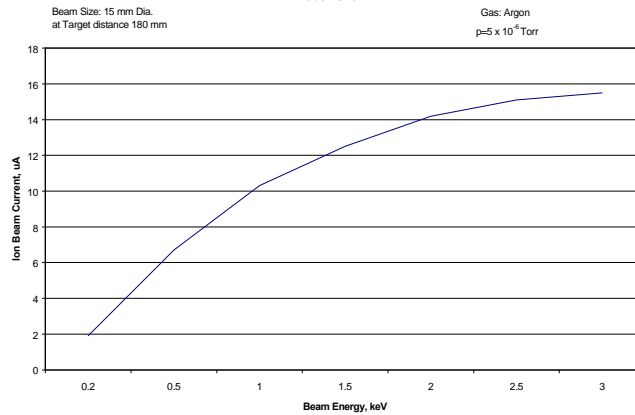
Controls.....

Protection.....

Input.....

Size:

IONEC - ION SPUTTER GUN
 Model IG70



ION SPUTTERING GUN, MODEL IG70, OUTLINE DRAWING

