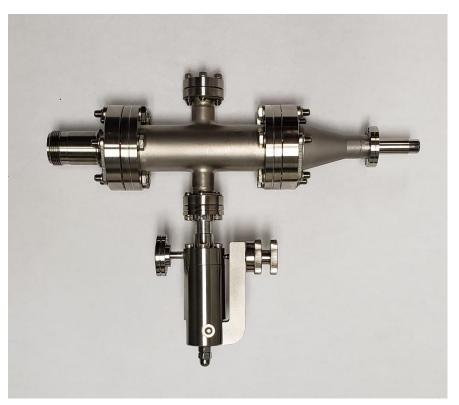
IG35 Configuration Guide and Specifications



Ion Gun Configuration

Base configuration			
Model	Order Code		
IG35		lon sputtering gun with direct gas inlet, beam size adjustable by exchangeable exit aperture from 2-10 mm diameter, 15 μ A beam current at operating pressure in main chamber for less than 5 x 10 ⁻⁶ Torr and mounting flange CF 1.33 " (35 mm O.D.). Double-focusing lenses for large target distances (up to 320 mm). Spare filament set included.	
IPS3-D		Digital controller for IG70 with voltage range 0-3.3 kV, front panel or computer control via built in USB interface, front panel timer, PC software with full IPS3-D control via USB and programmable timer. Cable included.	

Detailed Specifications

IG35 IONEC		
Ion source	Electron impact ionization in magnetic field	
Ionization Cathode	Tungsten-rhenium filament	
Beam current	Up to 20 μA	
Beam energy	0 – 3.0 keV	
Beam size	From 5 to 25 mm in diameter	
Beam uniformity	Less than 5%	
Gas input	Direct gas input to ion source via leak valve	
Mounting	CF1.33 " (DN16CF) flange	
Bakeability	Under vacuum - 250°C max	
Overall size	12.5 mm lens diameter and 75-220 mm drift tube length	
Conductance	0.52 l/sec (vacuum path from ion source to exit aperture)	

IPS3-D Electronics		
Filament current	3.5 A max	
Emission current	0 – 40 mA	
Grid voltage	120 – 150 V	
Beam voltage	0 – 3.2 kV	
Focus voltage	Factor 0.3 – 0.85 of beam energy	
Monitoring	Beam energy and emission current	
Display	Vacuum fluorescent display	
On-board automation	9 adjustable operating programs, outgassing, stand-by, filament forming, constant	
	beam current and diagnostics programs	
Manual control	Of all voltages and filament current via rotary dials and selection switches	
PC control	PC software for full control of all functions via USB	
Protection	Short circuit, over-current and over-voltage protection	
Input	115 V, 60 Hz standard	
International range	100/120/220/230/240 V AC, 47-440 Hz	
Dimensions	19" rack mount box with 3U (5.25", 133 mm) in height and 17.5" (440 mm) in depth,	
	weight: 12 kg	