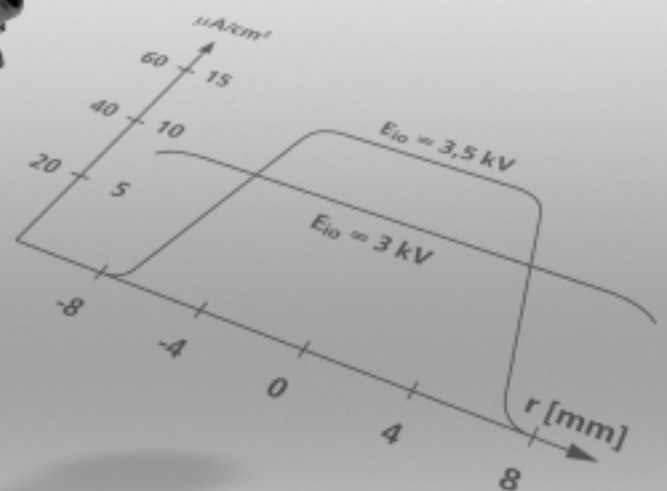
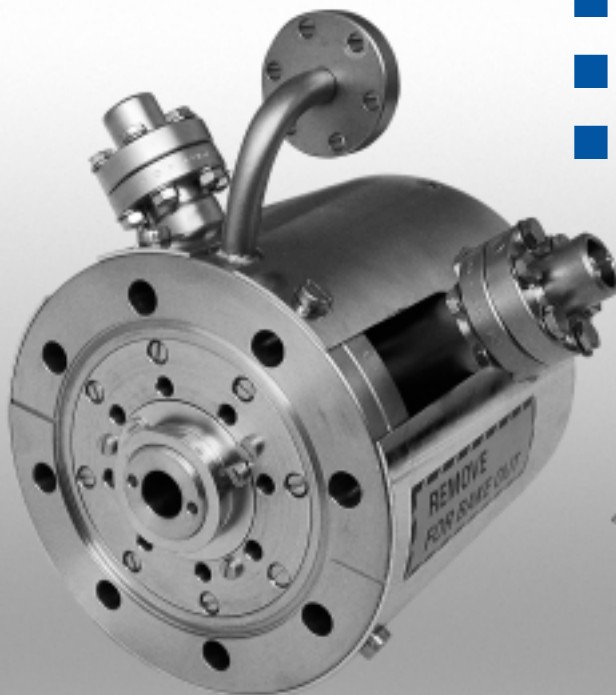


COMPONENTS FOR SURFACE ANALYSIS

Ion Source IQP 10/63

- Penning type cold cathode ion source
- High ion current
- Flat beam profile
- Large sputter area
- Suitable for reactive gases



Ion Source IQP 10/63

- High ion current, up to 50 μ A
- Very flat beam profile
- Large sputter area \varnothing 8 - 20 mm
- Variable ion energy 0 - 6 keV
- High long term stability
- Partial pressure during sputtering in the 10^{-6} mbar range
- Bakeable to 400 °C, after removal of magnet

- Highly efficient sputter source
- Rapid cleaning of large areas

The IQP 10/63 is a Penning discharge type ion source mounted on a DN63CF flange with an easily removable permanent magnet. The source can be supplied with a complete gas inlet system. An additional adapter for mounting on a DN35CF flange is also available.

Specification

Typical ion beam current	20 μ A at 3 keV Ar+
Maximum ion beam current	50 μ A
Beam diameter	8-20 mm, flat profile > 10 mm
Beam flatness	5% over 60% of the beam diameter
Maximum beam current density	150 μ A/cm ²
Ion energy	0 - 6 keV
Bake out temperature	400 °C after removal of magnet
Mounting flange	DN63CF (DN35CF adaptor optional)
Weight	4 kg

Controls

POWER SUPPLY ISC 6000

- Power supply voltage 0 - 6 kV
 - Potentiometer control
 - Digital panel meter display
 - Failure indicator
- Discharge power supply up to 20mA/1000V
 - constant voltage/ current mode
- Standard setting 1 kV / 4.5 mA in constant current mode
- Connector cables to IQP 10/63 included, 5 m length
- 19" (W) x 132 mm (H), 12 kg
- 115/230 VAC switchable, 50-60 Hz



The ISC 6000 supplies all voltages and currents needed for the SPECS IQP 10/63 source operation.

The switch mode power supply operates in constant voltage or constant discharge current mode. The discharge voltage may be selected between 0 and 1kV with a continuously variable discharge current (0 - 20mA).

The ion energy is continuously adjustable between 0 - 6 keV.

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