

EQD (Electrostatic Quadrupole Deflector)

Objectives

Deflect 90° charged particle (ions) and focalize the ions beam for mass selection by a mass quadrupole spectrometer. Selection of the ions deflections by different combinations of voltages in the hemispherical quadrupole and the Einzel lens.

Technical parameters

- All materials compatible with UHV: Stainless Steel, Aluminium, Alumina, Copper.
- Maximum temperature for bake-out: 300°C
- Deflection for all ions, positive and negative in opposite directions.
- Two Einzel lens for focalize before and after the deflections.
- Possibility of inverter the polarity of the hemispherical quadrupole for change the ions directions.
- Aperture diameter of Einzel lens of 10mm.
- EQM mounted on a transfer rod
- possibility of making changes by adjusting the length of the spacers

