

description

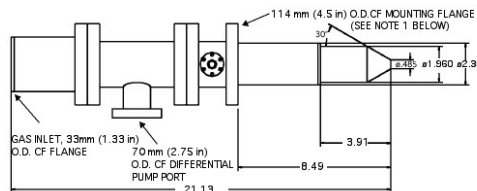
The Model 1407 Ion Source features Duoplasmatron performance in an electron impact ionization ion source. By means of changeable apertures in the optics column, a wide range of beam currents and spot sizes may be obtained. At a beam energy of 5 keV, beam current may be adjusted from 500 nA into a 15 μm diameter spot to 20 μA into a 75 μm diameter spot.

The optics column includes an integral Faraday cup for beam current measurement.

benefits

- Unique ion source design for stable emission
- Dual filaments
- UHV construction
- Power supply and deflection supply in single 5.25"-high, 19" rack-mount enclosure

specifications



Beam Energy	5 eV to 5 keV continuously variable
Beam Current Energy	20 μA maximum (Argon) @ 5 keV Beam
Spot Size (FWHM) (with 1 mm aperture)	15 μm @ 500 nA, 25 μm @ 5.0 μA , 75 μm @ 20 μA , 10 mm Working Distance
Electrical Requirements	115/220 V 50/60 Hz Autoselect
Mounting, Pumping Flanges	4.5" Conflat®, 2.75" Conflat®
Gas Inlet	1.33" (34 mm) Conflat®

All specifications are subject to change without notice.