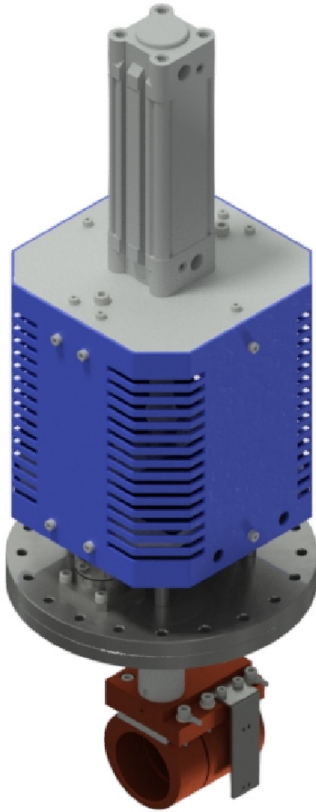




FARADAY CUP

FC-50

Pneumatically-actuated, air-cooled, for ultra-high vacuum applications, capable of 50 W beam power



Overall view showing housing, mounting flange, and electrodes

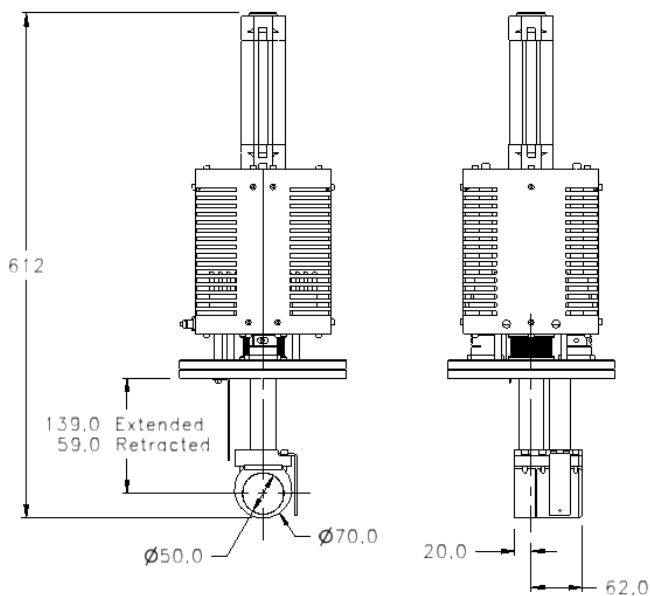
- Measures low-energy charged-particle beam currents up to 50W
- Secondary-electron suppression electrode
- Passive air cooling for simplicity
- Beam current read back¹
- End stop limit switches¹

SPECIFICATION²: FC-50

Maximum Beam Power	50W
Maximum Travel	80 mm
Cup Inner Diameter	50 mm
Flange	DN 150CF (O.D. 203mm)
Electron Suppression	Bias Ring, 500V Max MHV Connector
Cooling	Air
Current Read back	BNC Connector
Pneumatic Control	3.5 – 7.0 Bar

Notes:

1. D-Pace can provide a controller for current-to-voltage conversion, limit-switch feedback, and pneumatic control.
2. D-Pace reserves the right to update specifications as part of its ongoing product improvement program.
3. Expansion/retraction distance is configurable for customer's application.
4. D-Pace can provide a custom vacuum box.



Key dimensions for installation on a beamline^{3, 4}