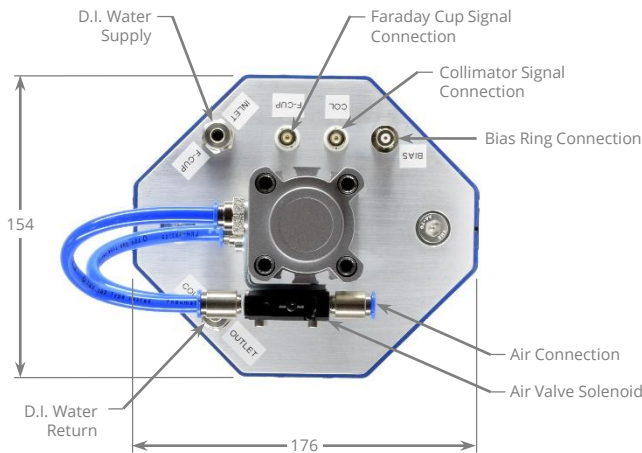
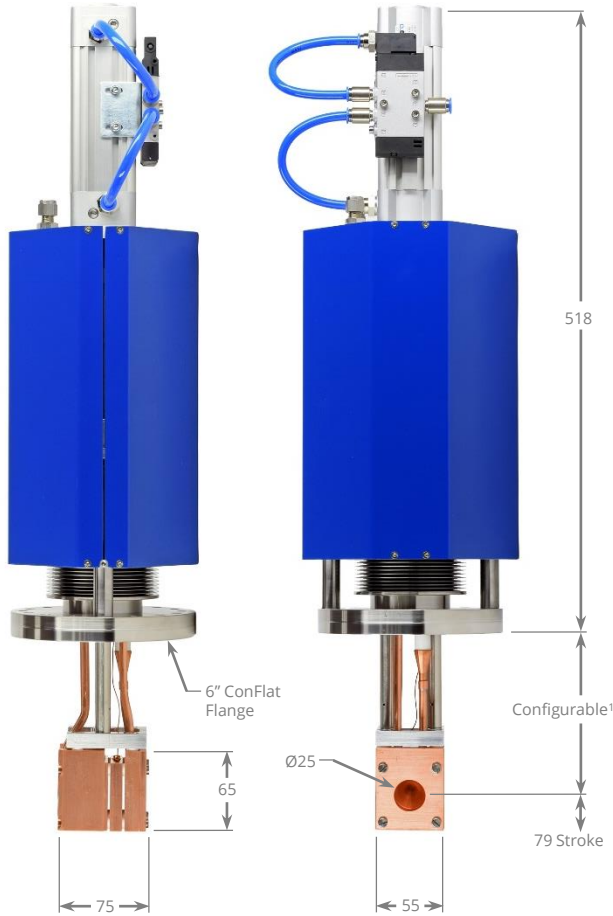




# FARADAY CUP

FC-25.1K

Pneumatically-actuated, water-cooled, Faraday Cup for Ø25 mm beams capable of 1 kW beam power



- Measure charged particle beams up to 1 kW beam power.
- Secondary-electron suppression electrode
- Water-cooled (de-ionized water required)
- Beam current readback from both entrance collimator and Faraday Cup
- Ø25 mm aperture, Ø55 max. beam size
- Pneumatic actuation
- Reed limit switch feedback for device position
- Cylinder actuation speed adjustments

## SPECIFICATIONS: FC-25.1K

Max. Beam Power	1000 W (500W·cm <sup>2</sup> )
Collimator I.D.	Ø25 mm
Collimator Dimensions	55 mm × 65 mm
Cup/ Collimator Material	Copper <sup>3</sup>
Flange	6" ConFlat (152 mm O.D.)
Max. Travel	79 mm
Pneumatic Operation Connections	24 V DC Solenoid Ø8 mm push tube fitting
Cooling Water	3 L/min De-ionized water only
Inlet Temperature Connections	< 20 °C Ø6 mm tube fittings
Current Readbacks: Faraday Cup Signal Collimator Signal	Isolated BNC, female Isolated BNC, female
Bias Ring Connection Max. Bias Voltage	Grounded MHV, female 500 V
Limit Switches (Qty 2) <sup>4</sup> (Inserted & Retracted)	N/O reed switch, 2-wire, 5-30 V, 80 mA max.
Cylinder Speed Adjustments <sup>4</sup>	One-way flow control valves for exhaust air

1. Inserted length at retracted position configurable for customer's application. Stroke fixed.
2. D-Pace reserves the right to update specifications as part of its ongoing product improvement program. Refer to D-Pace website for latest specifications.
3. Tantalum plating option available.
4. Limit switches and cylinder speed adjustments not shown in images.