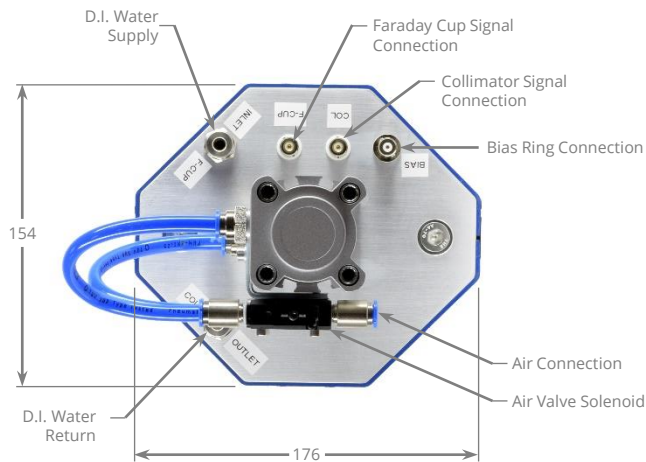
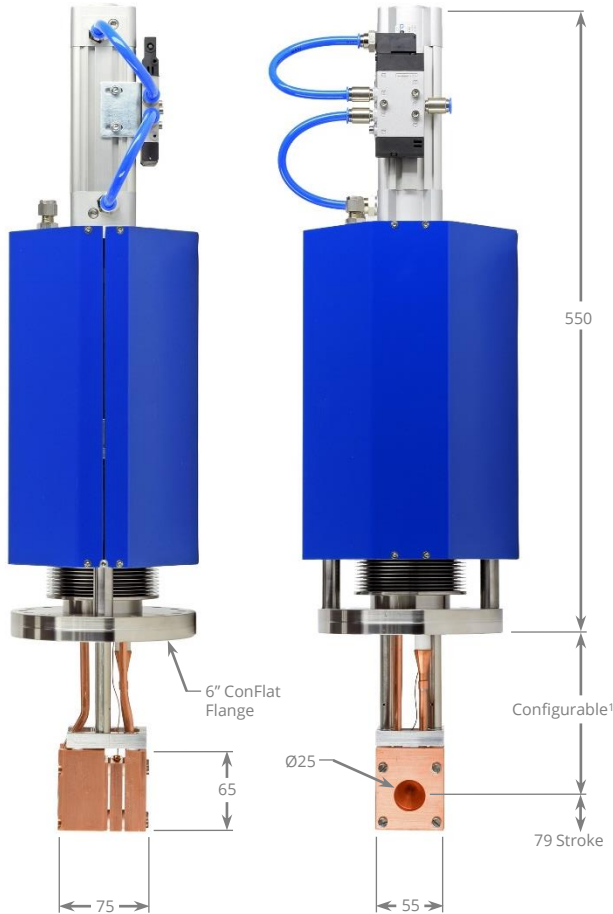


FARADAY CUP

FC-25.3K

Pneumatically-actuated, water-cooled, Faraday Cup for Ø25 mm beams capable of 3 kW beam power



- Measure charged particle beams up to 3 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
- Pneumatic actuation
- Reed limit switch feedback for device position
- Cylinder actuation speed adjustment

SPECIFICATIONS: FC-25.3K

| | |
|---|--|
| Max. Beam Power | 3 kW (< 12 kW·cm ⁻²) |
| Collimator I.D. | Ø25 mm |
| Collimator Dimensions | 55 mm × 65 mm |
| Cup/ Collimator Material | Copper ² |
| Flange | 6" ConFlat (152 mm O.D.) |
| Max. Travel | 79 mm |
| Pneumatic Operation Connections | 24 V DC Solenoid Ø6 mm push tube fitting |
| Cooling Water | 3 L/min De-ionized water only |
| Inlet Temperature Connections | < 20 °C Ø 1/2" (12.7 mm) tube fittings |
| Current Readbacks: | |
| Faraday Cup Signal | Isolated BNC, female |
| Collimator Signal | Isolated BNC, female |
| Bias Ring Connection | Grounded MHV, female |
| Max. Bias Voltage | 500 V |
| Limit Switches (Qty 2) ³ (Inserted & Retracted) | N/O reed switch, 2-wire, 5-30 V, 80 mA max. |
| Cylinder Speed Adjustments ³ | One-way flow control valves for exhaust air |

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