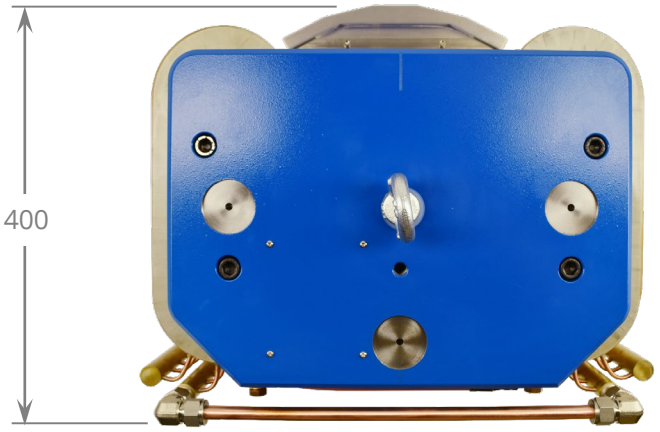
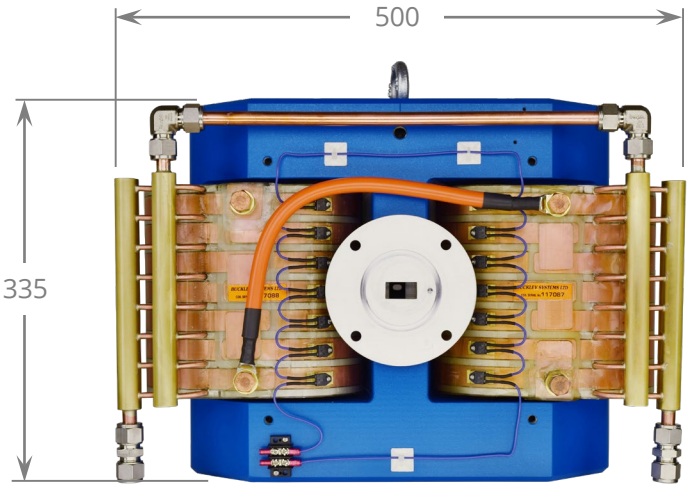
5-PORT TARGET SELECTOR

DM-14.5X13

Magnetic target selector with 5 target ports, protection collimator and beam readback, for 18 MeV protons.





- **Direct proton beams up to 18 MeV.**
- **Select from 1 of 5 target positions.**
- **Includes a protection collimator before targets, with beam current readback for safety interlocks.**
- **Coil and yoke design reduce irradiation of upstream equipment.**
- **Compact design ideal for use with MiniPET-30.**

SPECIFICATION: DM-14.5X13	
Mass (Weight):	278 kg
Target Angles:	±27°, ±13.5°, 0°
Bend Radii:	636.6 mm, 1273.2 mm
Effective Length:	300 mm
Max. Field:	1.24 Tesla
Max. Current:	130 A
Max. Voltage:	31.3 V
Max. Resistance:	0.24 Ω
Max. Power:	4.07 kW
Gap (Vacuum Box)	14.5 mm
Exit Apertures:	Ø15 mm
Coil Thermal Switches: Trip Temperature:	12 total (6 per coil) 70°C
Cooling Water Flow: Pressure Drop: Inlet Temperature: Connections:	> 3.0 L/min 16.9 kPa < 20 °C 12 mm O.D. tube fittings
Vacuum Box:	Aluminum
Entrance Flange:	ISO100
Collimator Readback	BNC, grounded shield

The 5-Port Target Selector is a dipole magnet designed to direct a charged particle beam to one of five output directions. Intended for use with five targets, the device operates as a magnetic target selector. Included in the output of the vacuum chamber is a beam collimator, with a single beam current readback.