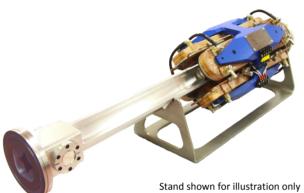


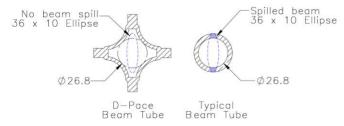
MiniPET-30 Beamline

Compact beamline for PET, with both Horizontal and Vertical Focusing and Steering to give Complete Beam Tuning





The **D-Pace** *MiniPET-30* beamline performs both focusing and steering functions, through use of a combined quadrupole doublet and X and Y steering magnets. This allows for increased control of a proton beam for PET isotope production, which can greatly improve production rates. This compact and lightweight beamline uses low-activation materials and a unique, self-supporting beam pipe. The beamline is mounted directly to upstream and downstream elements, requiring no other support or dedicated stand. All water and electrical connections are made on a single side of the system for simple access and hose/cable routing. Two KF25 ports are included, for vacuum connection or other devices.



- Unique aluminum beam tube aperture for high beam transmission and low activation
- Combined quadrupole/steering doublet achieves focusing and steering in both horizontal and vertical directions, for optimized beam on target
- Ideal for use with 12-19 MeV proton beams for radioisotope production
- Light-weight, no dedicated support required
- Combined magnet self-aligns with beam tube

SPECIFICATIONS: MiniPET-30 Beamline		
Mass (Weight)	54 kg	
Dimensions (W x H x L)	236 x 236 x 908 mm	
Circular Aperture	Ø26.8 mm	
Beam Tube Material	Aluminum	
Entrance / Exit Flange	ISO63 / ISO100	
Vacuum Ports	2x KF25 (4x KF25 available)	
Upstream Support	65 N.m bending	
Downstream Support	18 N.m bending	
Max. Quadrupole Field Quadrupole B/I Effective Length	0.25 Tesla 33 Gauss / A 150 mm	
Max. Steering Angle	6.5 mrad at 12.6 MeV H+	
Cooling Water: Input Connections	1 L/min, 20 °C 4 mm OD Tube Fitting	
Thermal Switch: Trip Temperature Connection	One per coil 70°C #6 Screw Terminal	
Power Supply Input (each, 4 supplies)	230 V AC, Single Phase, 50/60 Hz, 6 A Max.	

D-Pace, Inc.

+1.250.352.5162

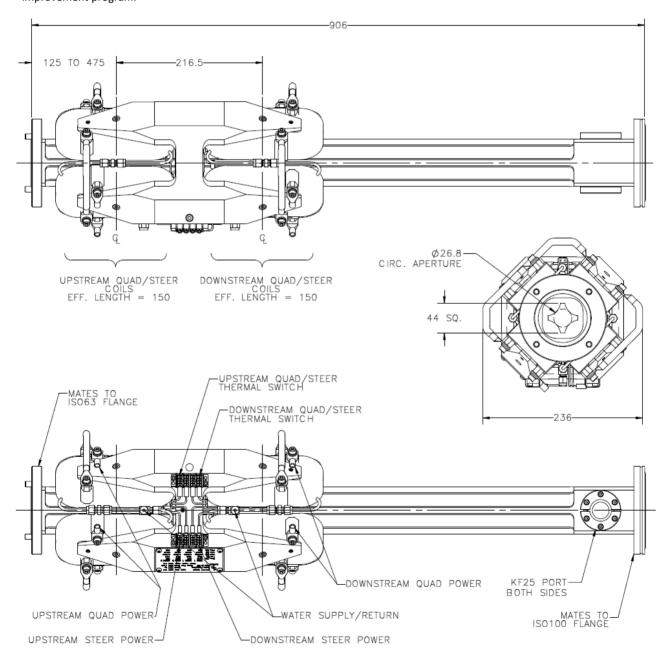
info@d-pace.com

www.d-pace.com

MiniPET-30 Magnet	Quadrupole	Steering
Upstream Coils	Horizontal Focusing	Vertical Steering
Downstream Coils	Vertical Focusing	Horizontal Steering
Connections	4 AWG Cable Lug	#6 Screw Terminal
Power Supply: Output Control	Quantity = 2 0-75 A, 0-8 V, 600 W Analog 0 to 10 V	Quantity = 2 ± 10 A, ± 20 V, 200 W Analog –10 to +10 V

D-Pace reserves the right to update specifications as part of its ongoing product improvement program.

The *MiniPET-30* beamline includes power supplies to operate the four magnet functions: horizontal focusing, vertical focusing, horizontal steering, and vertical steering. A customized beam pipe can be provided to match the overall length and flange connections of existing installations. Additional KF 25 ports can be provided upon request.



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info@d-pace.com

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