

OptiCool® Specifications*	
Temperature Control	
Temperature Range:	1.7 K to 350 K
Temperature Stability:	±0.2% for T < 20 K; ±0.02% for T > 20 K
System Cooldown Time:	17 hours (typical)
Magnetic Field Control	
Maximum Field:	±70,000 Oe (±7 T)
Field Uniformity:	±0.3% over a 3 cm diameter spherical volume
Optical Access	
Access Port Details:	8 total access ports standard
1 top and 1 optional bottom window:	50 mm diameter, 41.5 mm clear bore (user-replaceable)
7 side windows:	40 mm diameter, 24.5 mm clear bore (user-replaceable)
Acceptance Angle, Top Window:	70 degrees full angle: Sample located at magnet center 90 degrees full angle: Sample located 13 mm above magnet center
Acceptance Angle, Side Window:	13 degrees full angle: Sample located at magnet axis
Microscopy Options:	Low working distance top window for 3mm spacing (vs 15mm standard) between ambient and sample; Vacuum objective mounting hardware for in-vacuum room-temperature or cryogenic objectives
Vibrational Stability	
Horizontal:	< 10 nm peak-to-peak
Vertical:	< 4 nm peak-to-peak
Sample Space	
Maximum Sample Volume:	89 mm diameter by 84 mm tall
Sample Environment:	Sample in cryostat vacuum space
Dimensions	
Optical Table:	Cryostat Footprint: 1 m x 0.5 m (minimum) Cryostat Height: 1 m (minimum)
Floor Space:	Tower Footprint: 0.75 m x 0.75 m Tower Height: 2 m (minimum) Cabinet (not shown) Footprint: 1 m x 1 m Cabinet (not shown) Height: 0.68 m (minimum)

