

Technical Specifications

System Description	
self-contained compact cryostat	19-inch rack mountable, 10U
integrated air-cooled compressor	speed regulation - „adaptive power“
sliding vacuum space for cold plate access	ethernet interface for remote control
Temperature performance (base system)	
base temperature	2.3 K
cooling power	50 mW @ 2.8K
integrated thermometer (4-wire, connected to base wiring)	.
General Specifications	
shield diameter	70 mm (others on request)
cold plate diameter	45 mm
cold plate free space to shield	58 mm
mounting	19 inch rack mounting with removeable wheels and handles
ambient temperature	10..30 °C (non-condensing)
dimensions	446 x 177 x 641 mm, 17.5" x 10.5" x 25.25"excluding backside connections and compressor
weight	approx. 100kg including compressor
country of origin	Federal Republic of Germany
Vacuum and feedthrough specifications	
sample environment	cryogenic vacuum
leak rate of vacuum	< 5e-9 mbar l/s
El. feedthrough and wiring for base operation	6 contacts as twisted pairs (4 Manganin, 2 Brass), 12 contacts optional
additional feedthrough options	5 Feedthrough plates for wiring upgrades KF25 flange for additional fiber or wire integration
Electrical Specifications	
maximum input power	< 1.4 kW
AC input voltage and line frequency	single phase 230 V, 50 Hz/60 Hz 110 V option with external transformer
remote operation	Ethernet interface (ADS and webserver)
Compressor specifications (included)	
dimensions	446 x 266 x 641 mm, 17.5" x 10.5" x 25.25"excluding handles, wheels and front panel
compressor drive	inverter driven pump
air cooling	.