LTSYS -He3

ultra-stable low temperature physics measurement systems

standard edition	0.3 20 K (300 K on request)
General Specifications	
principle	charcoal cooling method
liquid Helium reservoir capacity	50 l
temperature isolation	liquid Nitrogen shielded (capacity 45 l)
material of body	aluminum
top loading system	quick and easy sample exchange
attoDAMP ^{IM}	vibration and acoustic noise damping system
Performance Data	
base temperature	300 mK
cooling power	60 µW @ 300 mK
hold time at base temperature	48 hours
He3 regeneration time	typ. 30 min
estimated liquid Helium static loss	< 0.25 l/hr
rate (standard edition, without insert)	
thermometry	cotrol thermometer on charcoal sorption pump
	thermometer on 1 K pot with standard calibration
	RuO2 thermometer on He-3 pot
Dimensions	
cryostat (width x depth x height)	approx. 900 x 750 x 1800 mm (including rack and attoDAMP)
electronic rack (width x depth x height)	640 x 640 x 1350 mm (including rack)
required ceiling height	approx. 3 m
Options	
superconducting magnet	6 12 T (15 T on request)
Helium transfer line	different sizes on request
Helium level meter	
Available Inserts	
confocal microscopes	attoCFM II, attoCFM III
atomic force microcopes	attoAFM I, attoAFM III
scanning nearfield optical microscopes	attoSNOM III





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