

# LTSYS -He4

ultra-stable low temperature physics measurement systems

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Temperature Range	
standard edition	1.5 .. 4 K
with sample heater (optional)	1.5 .. approx. 70 K
with VTI insert (optional)	1.8 .. 300 K (compatible with selected inserts)

General Specifications	
liquid Helium reservoir capacity	50 l
temperature isolation	vacuum isolation, vapor shielded
material of body	aluminum
top loading system	quick and easy sample exchange, 2" diameter probe bore fitting all <b>attocube</b> inserts
attoDAMP™	vibration and acoustic noise damping system

Performance Data	
estimated liquid Helium static loss rate (standard edition, without insert)	0.25 l/hr
temperature stability	< 0.1 K (for VTI / temperature controller)

Dimensions	
cryostat (width x depth x height)	900 x 750 x 1500 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	
temperature controller	for VTI cryostat and sample heater

Available Inserts	
confocal microscopes	attoCFM I, attoCFM II, attoCFM III
atomic force microscopes	attoAFM I, attoAFM II, attoAFM III
scanning nearfield optical microscopes	attoSNOM I, attoSNOM II, attoSNOM III
scanning tunneling microscope	attoSTM I
cryogenic probe station	attoCPS I, attoCPS II



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