

# LTSYS - Low Temperature Physics Measurement System

## LTSYS -CcDIL

cryogen-free ultra low temperature physics measurement systems

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Temperature Range	
standard edition	< 20 mK .. 300 K

General Specifications	
technology	4 K stage: pulse-tube based closed-cycle cryostat 20 mK stage: dilution refrigerator unit
material of body	stainless steel and aluminum
attoDAMP™	vibration and acoustic noise damping system

Dilution Refrigerator	
base temperature	< 20 mK
cooling power	up to 500 $\mu$ W @ 100 mK
easy access to experimental space	quick and easy sample exchange
experimental space (standard)	diameter 200 mm, height 200 mm
time to base temperature (no additional heat load)	< 24 h

Pulse Tube Based Pre-Cooler	
nominal cooling power (@ 4.2 K)	> 350 mW
power consumption	6 kW
cooling	water cooling

System Connections	
vacuum pump	flange and valve included
thermometry	standard feed-through included

Options	
superconducting magnet	6 .. 9 T

Available Inserts	
confocal microscopes	attoCFM II, attoCFM III
atomic force microscopes	attoAFM I



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