

# LTSYS - Low Temperature Physics Measurement System

## LTSYS -CcHe3

cryogen-free ultra low temperature physics measurement systems

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Temperature Range	
standard edition	< 300 mK .. 300 K

General Specifications	
technology	4 K stage: pulse-tube based closed-cycle cryostat 300 mK stage: adiabatic multi-expansion of $^3\text{He}$ gas
material of body	stainless steel and aluminum
attoDAMP™	vibration and acoustic noise damping system

Performance	
base temperature	< 300 mK
hold time @ 300 mK	> 50 h (no external load)
cooling power	100 $\mu\text{W}$ at 350 mK for > 6 hrs
temperature stability	10 mK at $T < 2$ K

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

Available Inserts	
confocal microscopes	attoCFM II, attoCFM III



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