

# attoDRY800

1010079

## Technical Specifications

<b>General Specifications</b>	
technology	low vibration, closed-cycle cryostat intimately integrated into optical table (sold separately)
sample environment	cryogenic vacuum, sample cooled via braids (ATC100)
sample space	75 mm (diameter)
sample exchange	easy access via removal of vacuum shroud
usability	fully automated temperature control (vacuum, cooldown, T control, warmup), all pumps integrated, USB interface for remote control
vibration & acoustic noise damping system	proprietary low vibration design
<b>Performance Data</b>	
temperature range	3.8 .. 320 K (depending on configuration)
temperature stability	< 15 mK (peak-to-peak with damped sample mount)
base pressure (in sample chamber)	< 5e-6 mbar
leak rate of vacuum	< 5e-9 mbar l/s
cool down time (incl. pumping time)	< 4.5 h to 5 K (depending on thermal load)
cooling power at cold plate	> 170 mW @ 5 K
vibration level (cold plate, vertical)	< 5 nm (peak-to-peak@1500 Hz)
<b>Compressor</b>	
power consumption	max. 3 kW
cooling of compressor	water cooling (default; requires local infrastructure)
<b>Size and Dimensions</b>	
optical table	standard size 900 mm x 1800 mm x 305 mm (leg height 597 mm), other table sizes available; metric or imperial mounting threads
<b>Options and Upgrades</b>	
temperature controller	included
pumping kit	included
vacuum shroud	Basic (standard shroud); upgrade options: RT-SWD, RT-USWD, LT-APO objective, HV objective, Photonic Probe Station, or customized height, diameter, windows & working distance
electrical access	36 customer wires included, heat sunk @ 4 K (additional wiring on request)
feedthroughs	electrical (DC, HF), optical fibers, gas capillary (on request)
sample motion	low temperature positioners
cryostat compressor upgrade	air-cooled (grey-room recommended)
flexlines	extension to 13 m or 20 m (instead of 6 m)
air-compressor	for active vibration isolation of table
<b>Compatibility</b>	
confocal Raman microscopes	cryoRaman (on request)
Cryogenic Photonic Probe Station	confocal microscope with 2 fiber probes for side excitation/detection

