



WIDE TEMPERATURE RANGE ENABLING A VARIETY OF APPLICATIONS

From sub-ambient operations up to 500 °C

VARIETY OF MODES OF OPERATION

ability to combine PCT, kinetics and cycle-life modes to 200 bar all in one instrument and operation

PRECISION MEASUREMENT OF SMALL SAMPLES

using the patented microdoser option (US8132476) to inject small doses of gas on the sample

EXTERNAL CALORIMETER COUPLING CAPABILITY

to simultaneously analyze gas sorption and heat flow, and understand the strength of gas-solid interactions

TEMPERATURE	
Temperature range (°C)	-260 °C to 500 °C with different sample holder options Higher temperatures on request
Calibrated reservoirs	5 high pressure calibrated volumes ranging from ~12 ml to ~1.2 l
Sorption gas (Test gas)	Carbon Dioxide, Methane, Nitrogen, Argon, Hydrogen, Deuterium, Helium, Neon, Ammonia, n-alkanes from C2 to C6, more on request.
Safety	Flammable gas detector, emergency vented cabinet, burst disk
Pressure	
Operating pressure range	From vacuum to 200 bar Pressure regulation: automated, PID software controlled aliquot sizing – Fixed P, ΔP or f(ΔP)
Pressure control (regulation)	2 transducers for vacuum to 200 bar
Sample pressure measurement	1 transducer for vacuum to 200 bar 1 transducer for vacuum to 5 bar Accuracy: 1% of the reading
Maximum sensitivity	3 μmole of gas (with the MicroDoser attachment)