

Autosorb-6B Surface Area and Pore Size Analyzer

The **Autosorb-6B**, is a high performance six-sample Surface Area and Pore Size Analyzer which offers:

- **Faster initialization**
Save up to 45 minutes at the start of analysis. Evacuation, leak testing, transducer linearization and P_0 determinations of all 6 sample stations are performed simultaneously and automatically.
- **Ultra-low surface area capability**
An optional configuration, the Autosorb-6B-Kr, incorporates a low pressure transducer and a high performance turbo-molecular pump to meet the pressure requirements for using krypton gas as an adsorbate.
- **Faster processing**
Using a new software technique called "MaxiDose", run time can be reduced by 30% to 40%. You set guidelines about number of points and precision required. The program then introduces varying quantities of sorbate (dose) in accordance with the demands of the sample.



Autosorb-6B

Specifications & Physical Requirements

Specification	Autosorb-6B	Autosorb-6B-Kr
PRESSURE (<i>Specifications by transducer manufacturer</i>)	Range: 0 - 1,000 torr	Range: 0 - 10 torr
Accuracy	0.001 x full scale	0.0015 x reading
Linearity: 0.05% full scale	0.0005 x full scale	0.0015 x reading
Minimum resolvable pressure:	0.015 torr	0.0002 torr
Minimum resolvable relative pressure (P/P ₀):	0.00002 nitrogen	2.6 x 10 ⁻⁷ nitrogen 7.6 x 10 ⁻⁵ krypton
ULTIMATE VACUUM:	Less than 0.001 torr	Less than 10 ⁻⁵ torr
SORBATE GASES:	Nitrogen or any non-corrosive gas with appropriate coolant	
SURFACE AREA RANGES:	Less than 0.0005 m ² /g with Kr to no known upper limit Less than 0.05 m ² /g with N ₂ to no known upper limit	
PORE ANALYSIS:	Less than 0.0001 cc/g detectable limit 3.5 - 4000E pore diameter range with nitrogen	
ACCESSORIES:		
Required:	Adsorbate and helium (minimum purity 99.999%), coolant Windows® compatible personal computer	
Optional:	Autosorb DEGASSER, uninterruptable power supply, 20 inches (50cm) high caster mounted cabinet	
Physical	Autosorb-6B	DEGASSER
DIMENSIONS:		
Width	25.5 inches (64.8 centimeters)	30.0 inches (76.2 centimeters)
Height	45.5 inches (115.6 centimeters)	29.0 inches (73.7 centimeters)
Depth	30.0 inches (76.2 centimeters)	17.6 inches (44.7 centimeters)
WEIGHT:	380 pounds (172.7 kilograms)	199 pounds (90.5 kilograms)
ELECTRICAL:	100-240 volts, 50/60 Hertz	100-240 volts, 50/60 Hertz
TEMPERATURE:	10 - 38°C. operating range at 90% maximum relative humidity	MANTLE: 420°C. maximum SELECTION: steps of 1°C. RAMP RATE: 0.2 to 40°C./min.