H-Sorb 2600TM

High Pressure & Temp. Gas Sorption Analyzer



Lead You to Particle World Better

- □ Analysis Method: static volumetric, high pressure gas sorption
- □ Versatility: adsorption/desorption isotherms measurement (cryogenic to 500°C), Gibbs supercritical adsorption measurement

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Data Reduction: Langmuir model regression isotherm,

PCT (Pressure-Composition-Temperature) diagram/curve/isotherm measurement, Langmuir maximum adsorption constant L and adsorption pressure constant B measurement; Langmuir correction model loading-ratio correlation regression (LCR) isotherm; Ono-Kondo (OK) lattice model isotherm regression; adsorptive gas density and vapor-liquid equilibrium accuracy calculation under different pressures and temperatures

- Measuring Ranges: continuous adsorption and desorption measurement from normal to 200Bar pressure
- □ Accuracy: repeatability errors <3%
- □ **Temperature Range**: cryogenic to 500°C, accuracy±0.1°C
- Sample Ports: two samples analyzing and two degassing, stainless-steel micro welding sample cells, software integrated temperature PID adjustment
- Transducer Accuracy: imported high precision transmitter, accuracy can reach 0.05% of F.S. (full-scale), long-duration usage stability is 0.025% of F.S.
- □ Ultimate Vacuum: 4x10⁻² Pa (3x10⁻⁴ Torr), molecular pump system (1x10⁻⁶ Pa) is optional
- □ Adsorbate Gas: high purity nitrogen, CO₂ or others (Ar, Kr, H₂, CH₄ etc.)
- Data Acquisition: high-precision and high integration data acquisition modules, minimal error, strong anti-interference ability
- Specifications: Height 22.05 inches (56cm)*
 Width 20.87 inches (53cm)*Depth 23.62 inches (60cm); 132 pound (60kg); 220V/5A

2 sample degassing ports can 2 sample efficiently clean and purify analyzing samples before analyzing ports Quartz sample cells for two systems ports 埃谱科技 www.app-one.com.cn Transparent protective covers with operation notes printed on interfaces.

Heating mantle

Fully automated elevator 4L stainless steel thick wall Dewar with temp. preservation foam covered outside. Support more than 72 hrs analyzing.

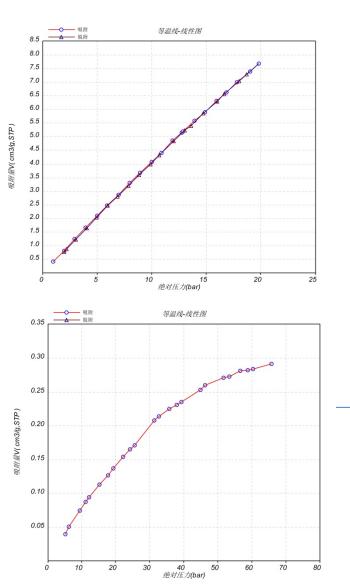
Advantages

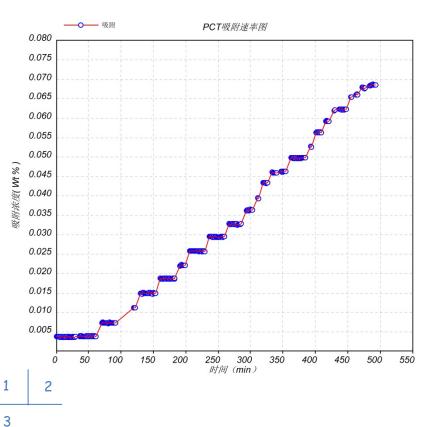
🌣 Control System	Imported VCR interface high pressure pneumatic valve can realize auto on-off within 200Bar, sealing performance is top to 1×10^{-10} Pa.m ³ /s, can be used more than 500 million times; programmable logic controller (PLC) system, high integration and sound anti-interference, improve stability and prolong life.	
a Analysis Management	Parameters be set by software, fully automated, can realize unattended operation at night; H-Sorb mode is available for accurate control gas charging pressure points, gain ideal data points.	
策 Manifold System	Imported 316L stainless steel thick-walled manifolds, micro welding sealing can reduce dead space largely; metal VCR connection is convenient for	

installation and uninstallation.

Safety Measures

H-Sorb asymptotic technology realizes auto gas-charging and degassing, prevents high pressure dangers caused by artificial mis-operation, and also minimizes large differential pressure's impact to pressure transducers.





- Fig.1 isotherm for hydrogen storage material
- Fig.2 hydrogen adsorption PCT on hydrogen storage material
- Fig.3 methane adsorption isotherm on shale material

ltem No.		Accessories	Quantity
1		H-Sorb 2600 Analyzer	1 set
2		Analysis Software (English)	1 set
3		Rubber O-rings for Sample Cells Sealing	10
4		Stainless Steel Sample Cells	4
5		V-shape Sample Filling Funnel	10
6		Pressure Transducer (imported with original packing)	1
7		Power Line	1
8	Manufacturer	Data Wire	1
9	Supplied	Stainless Steel Pipe	2 m
10		Fuse	2
11		High Pressure Gauge	1
12		Medium Pressure Gauge	1
13		Pressure Regulator	1
15		Protective Gloves	1 pair
16		User Manual(English)	1 сору
17		Software CD (English)	1
18	Need Customer	40L High Purity H _e (99.999%)	1 pot
19		40L High Purity N ₂ (99.999%)	1 pot
20		40L High Pressure N ₂ (up to 20Mpa)	1 pot
21		Computer	1 set
22	Prepared	Printer	1 set

WE SUPPLIED

BET surface area analyzer Surface area and pore size distribution analyzer Gas pycnometer true density analyzer High pressure and high temperature gas sorption analyzer Sample preparation degasser

CERSO

WE SERVE

Particle, porous, solid, powder, fiber etc nanomaterials cover nearly every industry field Also provide assistances for universities and institutes researching and teaching programs.

Gold APP Instruments

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