BSD-PH High Pressure Gas Sorption Analyzer



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Model

BSD-PH

High Pressure Gas Sorption Analyzer

- Test pressure range from OMPa to 20MPa;
- Test port 1/2/4 (optional);
- Liquid Nitrogen Surface Constant System fit for 77K high pressure Hydrogen adsorption(Patent)

BSD-PHU

Ultra High Pressure Gas Sorption Analyzer

- Test pressure range from 0MPa to 50MPa/69MPa
- Test port 1/2 (optional);
- Suitable for Shale Gas, Coal-bed Gas and Hydrogen storage of adsorption research at the highest pressure in worldwide;
- Gas Pressure Booster System which range from 30MPa/60MPa/80MPa;

BSD-PHE

High Pressure and Equal Pressure SorptionAnalyzer

- Test pressure range from 0MPa to 20MPa;
- Realize equal pressure adsorption kinetics analysis in volume method; (Patent)
- Support TPD rate analysis;

BSD-PHEM

High Pressure Sorption and Atmospheric Desorption Analyzer

- Add multiple MFC to analyze at atmospheric pressure multi -component gas desorption rate and TPD temperature;
- Support equal pressure dehydrogen module, which dehydrogen pressure from 0.01bar to atmospheric;

BSD-PHC

Cladding Pressure High Pressure Gas Sorption Analyzer

Modelling of strati-graphic stress environment applied to whole core of rock and coal to acquire adsorption performance at stress background;

BSD-PHM

Multi-component High Pressure Gas Sorption Analyzer

Multi-component gas competitive adsorption in volume method, solving adsorption of mixture gas laying (Patent)

BSD-PH High Pressure Gas Sorption Analyzer



Main Parameter

Test Pressure Range

from high vacuum to 690bar maximal;

- Temperature Range from -196°C to 900°C ;
- Testing Accuracy RSD <±2%;</p>
- Combustible gas alarm

Built-in combustible gas alarm to ensure safety;

Test Gas

Support H_2 , Ar, CO_2 , N_2 , Kr, He, O_2 , CH_4 , C_2H_6 , C_2H_4

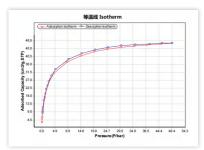
Pressure Transducer Accuracy

Double transducer with 0.01%FS and 0.025%FS for longterm running; range from 10/40/200/500/690bar optional.

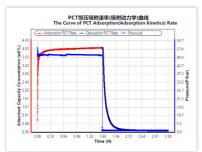
Thermostatic System

Manifolds, valves and gas source are in the same air bath. Keep thermostatic at 40°C and temp control accuracy at $0.1^\circ C$.

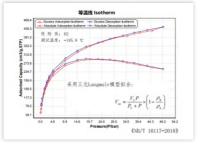
Test Reports



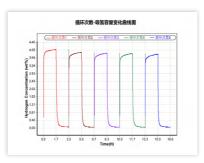
High Pressure Methane Adsorption Isotherm



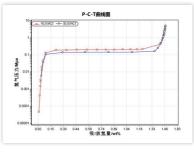
High Pressure and Equal Pressure Adsorption Test Report



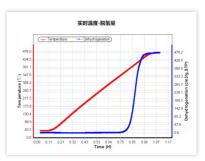
Hydrogen Adsorption and Desorption PCT Curve



Auto-cycle Adsorption Test Hydrogen Adsorption and Desorption Lifetime Evaluation



Absolute Adsorption Capacity Isotherm



Auto-cycle Times Hydrogen Adsorption Capacity Change Curve



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