

The world's only one, the best performance ever High precision gas/vapor adsorption measurement instrument

BELSORP-max II

Specific surface area: 0.0005m²/g~

Pore size distribution (Diameter): 0.35~500nm A variety of gas/vapor adsorption measurement.

Function

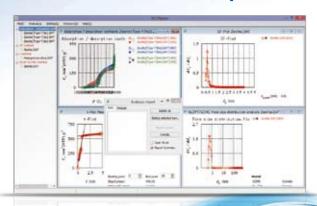
- The highest throughput instrument with simultaneous measurement of up to 4 samples.
- New advanced function "GDO (Gas Dosing Optimization)".
 The best suitable measurement conditions are automatically set using saved customer's adsorption isotherm data.
- An advanced system of direct evacuating and intelligent valve control reduces the measurement time significantly.
- High precision vapor adsorption measurement under the strict temperature control.
- ■High precision measurement by Advanced Free Space Measurement (AFSM™)
- Fully automatic process control from pretreatment (liquid nitrogen injection) enables seamless measurement (option).
- The advanced GCMC method is featured, which enables to perform more precise and higher resolution PSD analysis considering the interaction of actual material surface and adsorbate molecules than the conventional NLDFT (approx. calculation) method.
- Remote data monitoring after completion of measurement using E-mail system is available.



Measurement Software



Measurement Examples



Specialists in Adsorption

Specifications

Measurement principle	Volumetric method + AFSM™		
Adsorption gas/vapor*	N ₂ , Ar, Kr, CO ₂ , H ₂ , O ₂ , CH ₄ , NH ₃ , other non-corrosive gas		
	H₂O, MeOH, EtOH, C₀H₀, other non-corrosive vapor		
Multi sample measurement	Max 4 ports simultaneously		
Measurement range	Specific surface area: $0.01m^2/g$ or more (N_2) , $0.0005m^2/g$ or more (Kr)		
	Pore size distribution (Diameter): 0.35~500nm		
Pressure transducer*	133kPa (1000Torr) × 6 units		
	1.33kPa (10Torr) × 4 units		
	0.0133kPa (0.1Torr) × 3 units		
Thermostatic air oven	50℃		
Gas port *	2 (Available to add up to 12 ports)		
Vapor port	1		
Vacuum pump	Rotary pump + turbo-molecular pump (Option: Diaphragm pump)		
Pretreatment heater*	50~550°C (4 ports)		
Full automatic	E0. 4E0°C (2 ports)		
measurement heater*	50~450°C (3 ports)		
Water bath *	5~70°C (4 ports)		
Dimensions, weight	650(W) × 1020(H) × 680(D) mm, 120kg		
Utility	Gas	He, Adsorption gas: 0.1 ± 0.02 MPa Joint: $1/8$ " Swagelok connection	
		Valve driving gas: 0.45-0.55MPa Joint: 1/4" one-touch connection	
	Power	AC110/220V 1500W (Main unit including rotary pump)	
		AC110/220V 900W (Heater)	

*Can be changed according to the specifications.

Pretreatment Instruments

	BELPREP-flowII	BELPREP-vacII	BELPREP-vac Ⅲ		
Flow/Heat degassing	✓	Options	Options		
Vacuum/heat degassing	_	\checkmark	✓		
Pretreatment degassing		3	6		
Temperature range (Max)	43	450°C			
Temperature accuracy					
Dimensions, Weight	321(W) × 158(H) × 363(D)mm,	321(W) × 158(H) × 363(D)mm,	$400(W) \times 317(H) \times 383(D)mm$,		
	11kg	15kg	15kg		
Utility	Gas N_2 : 0.1 \pm 0.02MPa Joint: 1/8" Swagelok connection				
	Power AC110/220V 400W	AC110/220V 1000W (including rotary pump)	AC110/220V 1100W (including rotary pump)		







BELPREP-vacⅢ

**Specifications and appearance of the products listed are subject to change without notice.

*Products (goods and services) described in the catalog, depending on the destination and application, might be applicable to export regulations, etc. by the "Foreign Exchange and Foreign Trade Control Law".

In response to the review of the Japanese government regarding the export of products (goods and services), permission and approval, and the like, must be obtained according to the regulations.



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