



**Probst & Class**

invented and built to last

# Macsorb<sup>®</sup>

Automatic BET  
surface area analyser



> Reliable, automatic  
surface area analysis  
by the BET method



**Probst & Class**

Special machines for  
industrial process technology  
Since 1926

# Macsorb

Reliable, precise BET surface area analysis

**Macsorb surface area analysers determine the specific surface area of samples by the BET method. They are controlled from a desktop computer using the software supplied with the unit.**

**Fully automated handling of samples effectively prevents operator error. The high repeatability of the measurement results confirm the precision of the analyser and allowing users to obtain well-founded data within a short space of time.**

Probst & Class is extending its product portfolio with the Macsorb family, a computer-controlled fully-automated surface area determination system for powdered substances.

Macsorb allows the measurement procedure to be controlled and the results to be evaluated using Windows-compatible computers.



Basic unit with automatic sampler for 10 samples

- Fully automatic measurement procedure ensures fast, precise results
- User-friendly interface
- Modular design allows later extension of the basic unit
- Real-time logging and monitoring of measurement results on computer
- Recording and archiving of data from adsorption to calibration, allowing precise verification of repeatability and precision
- Single-point BET analysis (multi-point analysis available as an option)
- The short measurement time of about 10 minutes can be further reduced by a pre-heating unit

Measurement principle:	BET method
Specific surface area measurement range:	0.01 m <sup>2</sup> /g to 4,000 m <sup>2</sup> /g
Repeatability:	+/- 0,5% (measured with reference powder BCR-173® and BCR-170®)
Adsorbate:	N <sub>2</sub> 30% / He 70% (standard), alternatively argon or krypton
Measurement time:	Approx. 10 minutes/sample (depending on product)
Pre-heating unit:	1 integrated (max. temp. 400 °C)
Depth:	62,0 cm
Width:	31,0 cm
Height:	57,5 cm
Weight:	30 kg
Voltage:	100 V / 230 V / 50 Hz / 60 Hz

## Macsorb



Suitable for extension.  
Easy to operate.  
> Reliable.  
Precise.  
Fast.

## Accessories

- Automatic sampler for automated sample feeding with 8, 10, 20 or 30 sample stations
- Multi-point measurement for a maximum of four points
- Pre-heating unit for 1 sample with temperature control
- Pre-heating unit for 5 samples with standard temperature
- Pre-heating unit for 5 samples with individual temperature control
- Pre-heating unit for 10 samples with temperature control for two temperatures
- Automatic liquid nitrogen supply unit
- Gas switchover unit for multi-point BET analysis



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### Probst & Class

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