AMI-surface DX
Fully Automated Dynamic BET Analysis
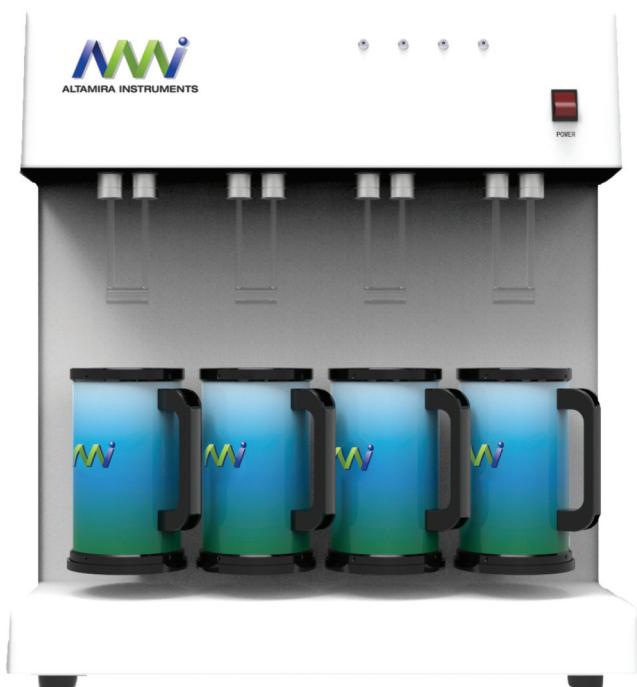
To complete the series of dynamic characterization analyzers, Altamira now offers a multi-station instrument specifically for dynamic **BET** analysis. Housed in a compact foot-print, the **AMI-surface DX** can perform simultaneous analysis on four samples. This high-throughput and fully automated analyzer ensures the utmost efficiency in any laboratory.

The AMI-surface DX

The **AMI-surface DX** represents a new affordable and fully automated high-throughput **BET** analyzer. Perform single and multi-point dynamic **BET** experiments in a fraction of the time of static methods. The **AMI-surface DX** is ideal for quality control. It can also be used in a wide range of industries from pharmaceuticals to oil and gas. The **AMI-surface DX** can run four samples and combines the benefits of flow **BET** with full automation.

Hardware and Operation

The **AMI-surface DX** is a fully automated dynamic **BET** instrument. The **AMI-surface DX** utilizes two mass flow controllers (MFCs) to automatically adjust the partial pressures of nitrogen. The 70mL/min and 30mL/min MFCs allow for precise blending which in turn results in highly accurate test results. The **AMI-surface DX** uses the adsorption peak for analysis and in doing so eliminates the error caused by slow or incomplete desorption of nitrogen from samples.

Through software control, the **AMI-surface DX** can automatically:

- Adjust the partial pressure of nitrogen
- Raise and lower the dewar
- Zero the TCD
- Determine equilibrium conditions
- Save data to file for offline analysis
- Calibrate adsorption data
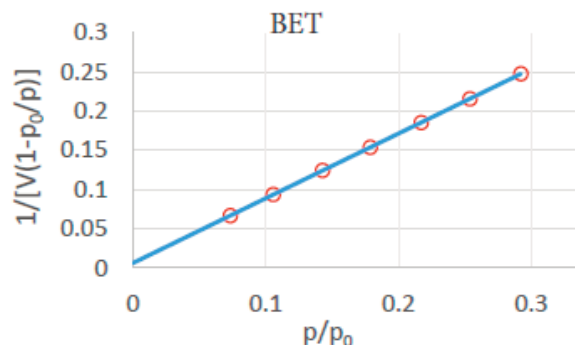
Specification Table

Method	Dynamic BET
Type of Test	Single or Multiple Point BET
Number of Stations	4
Repeatability	≤1.0% (on reference sample)
Accuracy	≤2.0% (surface area dependent)
Minimum Range	≥0.01 m^2/g
Dimensions	25" x 20" x 27" (L x W x H)
Weight	120 lbs
Power	110 Volts
Degassing	External

Industries

The Dynamic **AMI-surface DX** can serve the following industries:

- Catalyst Research
- Pharmaceuticals
- Battery Manufacturing
- Oil and Gas
- Building Materials

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