PRODUCT DATASHEET

Multi-Station BET Surface Area and Pore Size Analyser

Three samples at once, area and pore size





DETAIL – THREE ANALYSIS PORTS AND DEWAR

OVERVIEW

The Tech Inc. Multi-Station BET Surface Area and Pore Size Analyser measures surface area and mesopore size distribution on up to three samples at the same time. Each port has its own pressure transducer, a shared large dewar keeps all samples at 77 K, and separate degas stations prepare the next batch while the current one runs.

MODELS AND CONFIGURATIONS

- **Two-station model** – balanced cost and throughput.
- **Three-station model** – highest throughput.
- **Micropore model** – turbomolecular vacuum and low-pressure transducers for zeolites and carbons.

TYPICAL DESIGN DATA

Model	TI-SA-300 series
Analysis ports	2 or 3, run in parallel
Surface area	From about 0.01 m^2/g with krypton
Pore size	About 0.35 to 500 nm (micropore option for the low end)
Pore volume	From about 0.0001 cm^3/g
Degas	2 or 3 independent stations to 400 °C
Adsorbates	Nitrogen, argon, krypton, CO_2

APPLICATIONS

Catalyst and adsorbent development, battery and fuel cell materials, contract testing laboratories and university core facilities.

KEY ADVANTAGES

- **Throughput** – three full isotherms in the time of one
- **Independent** – each port measured by its own transducer
- **Complete** – surface area, pore size and pore volume in one run
- **Expandable** – micropore and krypton options later

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

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