



SPECIFICATION SHEET

TRISTAR II PLUS SURFACE AREA AND POROSITY ANALYZER

High Sample Throughput and Analytical Versatility

The Micromeritics® TriStar II Plus is an automated, three-station, surface area and porosity analyzer that delivers excellent performance and speed of analysis. With three available analysis ports, the TriStar II Plus provides high sample throughput and advanced data analysis features to the user. The unique stainless steel analysis manifold is designed for highly accurate gas management for confident and repeatable results.



Specifications

Pressure Measurement

Absolute	Range: 0 to 950 mmHg Resolution: Within 0.05 mmHg Accuracy: Within 0.1% of full scale Linearity: $< \pm 0.1\%$ of span
Relative	P/Po range: 0 to 1.0 P/Po Resolution: $< 10^{-4}$

Analysis

Specific Surface Area	Range: 0 to 950 mmHg Resolution: Within 0.05 mmHg Accuracy: Within 0.1% of full scale Linearity: $< \pm 0.1\%$ of span
Total Surface Area	From 0.1 m ² , nitrogen unit From 0.01 m ² , krypton unit
Pore Volume	From 4×10^{-6} cm ³ /g
Dewar Duration	Up to 40 hours

Adsorptive Gases

Nitrogen Unit	Nitrogen; argon, carbon dioxide, or other non-corrosive gases; butane, methane, or other light hydrocarbon vapors. Oxygen can also be used only with an appropriate vacuum pump.
Krypton Unit	Same as nitrogen unit, plus the capability to perform krypton surface area analyses at lower pressures

The TriStar II Plus should be operated in a properly vented environment when using flammable or toxic gases

Manifold Temperature

Accuracy	± 0.25 °C
Resolution	Within 0.1 °C

Vacuum System

Nitrogen Unit	Must accommodate 20×10^{-3} mmHg or better; uses oil-based or oil-free vacuum pump
Krypton Unit	Must accommodate 01×10^{-3} mmHg; oil-free vacuum pump required

Environment

Temperature	10 and 35 °C (50 to 95 °F), operating 0 to 50 °C (0 to 122 °F), non-operating
Humidity	20 to 80% relative, non-condensing

Physical

Height	74 cm (29 in.)
Width	40 cm (16 in.)
Depth	51 cm (20 in.)
Weight	37 kg (82 lbs)

Electrical

Voltage	100/120, 220/240 VAC
Power	150 VA, maximum
Frequency	50 to 60 Hz

Due to continuous improvements, specifications are subject to change without notice.

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