SPECIFICATIONS

TriStar® II Series

PRESSURE MEASUREMENT

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

ANALYSIS

Specific Surface Area	From 0.01 m^2/g, nitrogen unit From 0.001 m^2/g, krypton unit
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 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

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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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