

# SPECIFICATIONS

## TriStar® II Series



### PRESSURE MEASUREMENT

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

### ANALYSIS

<b>Specific Surface Area</b>	From 0.01 m <sup>2</sup> /g, nitrogen unit From 0.001 m <sup>2</sup> /g, krypton unit
<b>Total Surface Area</b>	From 0.1 m <sup>2</sup> , nitrogen unit From 0.01 m <sup>2</sup> , krypton unit
<b>Pore Volume</b>	From $4 \times 10^{-6}$ cm <sup>3</sup> /g
<b>Dewar Duration</b>	Up to 40 hours

### ADSORPTIVE GASES

<b>Nitrogen Unit</b>	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.
<b>Krypton Unit</b>	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

<b>Accuracy</b>	$\pm 0.25$ °C
<b>Resolution</b>	Within 0.1 °C

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### VACUUM SYSTEM

Nitrogen Unit	Must accommodate $20 \times 10^{-3}$ mmHg or better; uses oil-based or oil-free vacuum pump
Krypton Unit	Must accommodate $01 \times 10^{-3}$ 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.*