

TriStar II 3020 Specifications

The TriStar 3020 has been designed and tested to meet the specifications provided below.

Characteristic	Specification
Pressure Measurement	
Absolute	
Range:	0 to 950 mmHg
Resolution:	Within 0.05 mmHg
Accuracy:	Within 0.5%
Linearity:	Within 0.25% of full scale (transducer manufacturer's specification)
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 x 10 ⁻⁶ cm ³ /g
Dewar duration:	> 24 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

In keeping with a policy of ongoing product improvement, specifications are subject to change without notice.

Characteristic	Specification
Vacuum System	
Nitrogen unit:	Must accommodate 20×10^{-3} mmHg or better; uses oil-based or oil-free vacuum pump
Krypton unit:	Must accommodate 0.1×10^{-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), nonoperating
Humidity:	20 to 80% relative, noncondensing
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
Computer	
Minimum requirements:	Pentium 333 MHz computer (or equivalent) 512 megabytes of main memory 20-gigabytes hard drive Ethernet port (capable of communicating with a 10 base-T ethernet card) CD-ROM drive 1024 x 768 video display capability Windows® XP Professional or Windows Vista® operating system

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