

ASAP 2020™ Physisorption

<p>Pressure Measurement</p>	<p>Range: 0 to 950 mmHg</p> <p>Resolution:</p> <table border="0"> <tr> <td>1000-mmHg Transducer</td> <td>0.001 mmHg (Analysis system) 1 mmHg (Degas system)</td> </tr> <tr> <td>10-mmHg Transducer*</td> <td>0.00001 mmHg</td> </tr> <tr> <td>1-mmHg Transducer**</td> <td>0.000001 mmHg</td> </tr> <tr> <td>0.1-mmHg Transducer***</td> <td>0.0000001mmHg (optional for high stability)</td> </tr> </table> <p>Accuracy (Analysis system only): Includes nonlinearity, hysteresis, and nonrepeatability. Transducer manufacturer's specifications.</p> <table border="0"> <tr> <td>1000-mmHg Range</td> <td>Within 0.15% of reading</td> </tr> <tr> <td>10-mmHg Range*</td> <td>Within 0.15% of reading</td> </tr> <tr> <td>1-mmHg Range**</td> <td>Within 0.12% of reading</td> </tr> <tr> <td>0.1mmHg Range***</td> <td>Within 0.15% of reading</td> </tr> </table> <p>* High Vacuum systems, **Micropore systems, ***Micropore systems with 0.1 torr transducer</p>	1000-mmHg Transducer	0.001 mmHg (Analysis system) 1 mmHg (Degas system)	10-mmHg Transducer*	0.00001 mmHg	1-mmHg Transducer**	0.000001 mmHg	0.1-mmHg Transducer***	0.0000001mmHg (optional for high stability)	1000-mmHg Range	Within 0.15% of reading	10-mmHg Range*	Within 0.15% of reading	1-mmHg Range**	Within 0.12% of reading	0.1mmHg Range***	Within 0.15% of reading
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<p>Vacuum System</p>	<p>Vacuum Pump: Mechanical, two-stage, for analysis; optional for degas. Ultimate vacuum 5×10^{-3} mmHg. Dry pumps available for systems equipped with optional High Vacuum pump.</p> <p>High Vacuum Pump: (if installed): Less than 3.8×10^{-9} mmHg Ultimate vacuum measured by pump manufacturer according to Pneurop Standard 5608.</p>																
<p>Manifold Temperature Transducer</p>	<p>Type: Platinum resistance device (RTD)</p> <p>Accuracy: ± 0.02 °C</p>																
<p>Degas System (optional)</p>	<p>Temperature Range: Ambient to 450 °C</p> <p>Selection: 1 °C increments</p> <p>Accuracy: Within ± 4 °C of set point at thermocouple</p> <p>Backfill Gas: User-selectable, typically helium or nitrogen</p> <p>Pressure Range: 0 to 950 mmHg</p> <p>Accuracy: 1% best fit straight line</p>																
<p>System Capacity</p>	<p>Sample Preparation: 2 degas ports (optional)</p> <p>Analysis: 1 sample port and 1 saturation pressure tube</p> <p>Total Operating Capacity: Up to two analysis units can be controlled independently by one computer</p>																
<p>Cryogen System</p>	<p>Special Features: Isothermal Jackets effectively maintain cryogen level constant on sample tube and Po tube during analysis while evaporation of cryogen occurs.</p> <p>Capacity: 3-Liter Dewar, which provides up to 72 hours of unattended analysis.</p> <p>Analysis Time: Unlimited. Cryogen Dewars may be refilled without affecting the accuracy of results.</p>																
<p>Sample Size</p>	<p>Sample tubes are available for various size pellets, cores and powders. Sample tube stems are normally 1.27-cm (1/2 in.) OD with 9-cm³ bulbs. Also available are 0.635-cm (1/4-in.) or 0.953-cm (3/8-in.) OD with 9-cm³ bulbs. Special tubes can be designed to accommodate unusual samples.</p>																

Environment	Temperature: 10 to 30 °C operating -10 to 55 °C storing or shipping Humidity: 20 to 80% relative, noncondensing
Electrical	Voltage: 100, 115, 230 VAC ±10% Frequency: 50/60 Hz Power: 700 VA, operating
Gases	Normal: Argon, carbon dioxide, nitrogen, krypton, (Multigas system), and other suitable gases
Computer Hardware and Software	CD-ROM drive 512 megabytes of main memory 20-gigabyte hard drive SVGA monitor (1024 x 768 minimum resolution) Windows Vista, Windows XP, or Windows 7
Physical	Height: 99 cm (39 in.) Width: 85 cm (33.5 in.) Depth: 61 cm (24 in.) Weight: 115 kg (250 lbs)

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



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Rev (A)