

ChemiSorb 2750 Specifications

Sample Parameters	<p>Active Gas Volume: Minimum: 0.001 cm³ Maximum: Greater than 10 cm³</p> <p>Active Specific Volume Minimum: 0.0001 cm³/g Maximum: Greater than 20 cm³/g</p> <p>Surface Area: Minimum: 0.2 m² Maximum: 199.9 m²</p> <p>Specific Surface Area: Minimum: 0.02 m²/g Maximum: Limited only by weighing of sufficiently small sample</p> <p>Pore Volume: Minimum: 0.0001 cm³ Maximum: 0.15 cm³</p> <p>Sample Size: Up to 1 cm³ diameter x 3 cm³ length</p> <p>Sample Ports: Two sample preparation / analysis ports</p> <p>Throughput: Active Volume: Depends on injection steps; typically 1 to 2 hours per sample Surface Area: Typically 12 minutes per sample Total Pore Volume: Typically 45 minutes per sample</p> <p>Preparation Temperature: 35 to 400 °C with heating mantles</p> <p>Gas Injection Loop Capacity: 100 µL, 500 µL, 1000 µL supplied as standard set with instrument; other sizes available</p>
Accuracy / Reproducibility	<p>Active Volume: Low and Moderately Low: Typically better than ± 2% with ± 0.5% reproducibility High: Typically better than ± 1.5% with ± 0.5% reproducibility</p> <p>Surface Area: Low and Moderately Low: Typically better than ± 3% with ± 0.5% reproducibility High: Typically better than ± 2% with ± 0.5% reproducibility</p>
Supplies	<p>Gas: Ammonia, carbon monoxide, hydrogen, nitrous oxide, and oxygen. Mixtures, with helium, of nitrogen, argon, krypton, ethane, n-butane, and other non-corrosive gases. A mixture of 30% N₂ and 70% He is recommended for single-point analyses. Mixtures of He and approximately 5, 12, 18, and 24% N₂ are suggested for multipoint use.</p> <p>Coolant: Liquid nitrogen or argon, solvent slush baths, ice water as appropriate for adsorbate</p>
Exposed Materials	<p>Sample Tube: Quartz (Chemisorption); Borosilicate (Physisorption)</p> <p>Exposed Materials: Stainless steel, borosilicate glass, Buna-N, rhenium passivated tungsten filament, PEEK, Teflon, nickel, silicone (septum). Brass and copper for inert gas paths.</p>
Environment	<p>Temperature: 15 to 35 °C (59 to 95 °F) operating; 0 to 50 °C (32 to 122 °F) storing or shipping</p> <p>Humidity: 20 to 80% relative, noncondensing</p>
Electrical	<p>Voltage: 100, 120, 220 or 240 VAC ±10%</p> <p>Frequency: 50/60 Hz</p> <p>Power: 1.25 A (100/120 VAC) 0.75 A (220/240 VAC)</p>

Physical	Height: 53 cm (20.9 in.) Width: 46.5 cm (18.3 in.) Depth: 30.5 cm (12 in.) Weight: 22 kg (48 lbs)
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In keeping with a policy of ongoing product improvement, specifications are subject to change without notice.