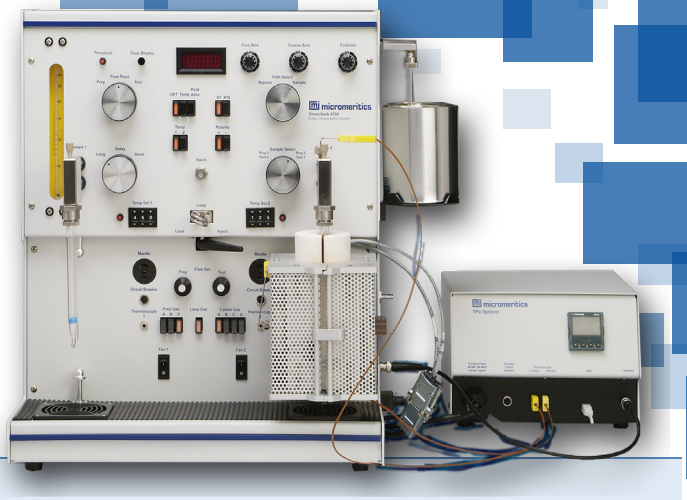
SPECIFICATIONS

ChemiSorb 2750



SAMPLE PARAMETERS

Active Gas Volume	Minimum: 0.001 cm^3 Maximum: Greater than 10 cm^3
Active Specific volume	Minimum: 0.0001 cm^3/g Maximum: Greater than 20 cm^3/g
Surface Area	Minimum: 0.2 m^2 Maximum: 199.9 m^2
Specific Surface Area	Minimum: 0.02 m^2/g Maximum: Limited only by weighing of sufficiently small sample
Pore Volume	Minimum: 0.0001 cm^3 Maximum: 0.15 cm^3
Sample Size	Up to 1 cm^3 diameter x 3 cm^3 length
Sample Ports	Two sample preparation/analysis ports
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
Preparation Temperature	35 to 400 °C with heating mantle
Gas Injection Loop Capacity	100µL, 500µL, 1000µL supplied as standard set with instrument; other sizes available

ACCURACY/ REPRODUCIBILITY

Active Volume	Low and Moderately Low: Typically better than ± 2% with ± 0.5% reproducibility High: Typically better than ± 1.5% with ± 0.5% reproducibility
Surface Area	Low and Moderately Low: Typically better than ± 3% with ± 0.5% reproducibility High: Typically better than ± 2% with ± 0.5% reproducibility

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SUPPLIES

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% N_2 and 70% He is recommended for single-point analyses. Mixtures of He and approximately 5, 12, 18, and 24% N_2 are suggested for multi-point use.
Coolant	Liquid nitrogen or argon, solvent slush baths, ice water as appropriate for adsorbate

EXPOSED MATERIALS

Sample Tube	Quartz (Chemisorption); Borosilicate (Physisorption)
Exposed Materials	Stainless steel, borosilicate glass, Buna-N, rhenium passivated tungsten filament, PEEK, teflon, nickel, silicone (septum). Brass and copper for the inert gas paths

ENVIRONMENT

Temperature	15 to 35 °C (59 to 95 °F) operating; 0 to 50 °C (32 to 122 °F) storing or shipping
Humidity	20 to 80% relative, non-condensing

ELECTRICAL

Voltage	100, 120, 220 or 240 VAC ± 10%
Frequency	50/60 Hz
Power	1.25 A (100/120 VAC) 0.75 A (220/240 VAC)

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)

**Due to continuous improvements, specifications are subject to change without notice.*

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