

SPECIFICATIONS

ChemiSorb HTP



ANALYSIS

Capacity	6 sample ports
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MANIFOLD TEMPERATURE

Type	Seven platinum resistance detector (RTD)
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Accuracy	± 0.02 °C by keyboard entry
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Stability	± 0.1 °C per month
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GAS FLOW CONTROL

Type	Six Mass Flow Controller; One per port
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Range	0 to 200 sccm (nitrogen equivalent flow rate)
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Accuracy	$\geq 5\%$ full scale
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GAS DOSING

Accuracy	0.05cm ³ STP, normal doses 0.01cm ³ STP, low pressure doses
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PRESSURE MEASUREMENT

Analysis Manifold Transducers:

Range	0 to 950 mmHg
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Resolution	0.001 mmHg, 1000-mmHg transducer 0.00001 mmHg, 10-mmHg transducer
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Accuracy	Within 0.15% of reading, 1000-mmHg and 10-mmHg transducers (Includes nonlinearity, hysteresis and non-repeatability; transducer manufacturer's specifications)
Sample Port Transducers:	
Range	0 to 1000-mmHg
Resolution	0.001-mmHg, 1000-mmHg transducer 0.00001-mmHg, 10-mmHg transducer
Accuracy	Within 0.5% of reading, 1000-mmHg and 10-mmHg transducers (Includes non-linearity, hysteresis and non-repeatability; transducer manufacturer's specifications)
Vacuum Gauge:	
Type	Pirani thermal vacuum gauge
Range	0.000375-mmHg to ≥ 1 -mmHg
Resolution on Screen	0.0001-mmHg (0.1 microns)

VACUUM SYSTEM

Diaphragm Pump	Two-stage, ultimate vacuum less than 3-mmHg
High-Vacuum pump	Less than 3.8×10^{-9} -mmHg, measured by pump manufacturer, according to Pneurop Standard 5608

FURNACE SYSTEM

The ChemiSorb HTP has six independent furnaces, one for each sample port

Temperature Range	10 °C above ambient to 700 °C
Accuracy	± 1.0 °C
Stability	± 0.5 °C up to 50 °C ± 1.0 °C from 50 to 700 °C
Ramp Range	1 to 20 °C/min up to 500 °C 1 to 10 °C from 500 to 700 °C
Cool Down	From 700 to 10 °C above ambient in less than 60 minutes
Temperature Increment	1 °C

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ELECTRICAL

Voltage	100/ 115/ 230 VAC
Frequency	50 or 60 Hz
Power	1500 VA, maximum (exclusive of vacuum fore pump which is powered separately)

ENVIRONMENT

Temperature	10 to 35 °C (50 to 95 °F), operating; -10 to 55 °C (14 to 131 °F), storing or shipping
Humidity	Up to 90% non-condensing (for instrument) 20 to 80% (for computer system)

PHYSICAL

Width	159 cm (63 in.)
Depth	51 cm (20.2 in.)
Height	159 cm (62.5 in.)
Weight	215 kg (475 lb)

COMPUTER

Minimum Requirements	64 bit, Windows® 7 Professional or higher operating system CD-ROM drive 512 megabytes of main memory 20-gigabyte hard drive SVGA monitor (1024 x 768 minimum resolution) Ethernet port, capable of communicating with a 10 base-T ethernet card
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**Due to continuous improvements, specifications are subject to change without notice.*