

AutoChem 2950HP

High Pressure Chemical Adsorption Analyzer

Specifications

Control Temperature System

Range:
-100 °C to 1100 °C with CryoCooler
Ambient to 1100 °C (without CryoCooler)

Selection:
Digitally set, 1 °C increments

Ramp Rates:
Up to 50 °C per minute within -70 to 500 °C
Up to 30 °C per minute from 500 to 750 °C
Up to 10 °C per minute from 750 to 1100 °C

Gases

Loop (Analysis): H₂, CO, O₂, N₂O, NH₃
Carrier: He, Ar, and other gases
Preparation: H₂, O₂, He, Ar, and others

Gas Flow Rate

Three Mass Flow Controllers (MFCs)
Manual Control: 10 to 100 cm³/min*
Automatic Analysis: 10 to 75 cm³/min
Pressure Specifications Ambient to 1000 psia
accurate to 0.5% of full scale

* Rate for Hydrogen; other gases have different range.

Gas Delivery

Inlet Ports: 4 each for preparation gas, carrier gas
and loop (analysis) gas
Temperature Control: Internal gas lines and valves
heated up to 150 °C

Physical

Height: 62 cm (24.5 in.)
Width: 66 cm (26.0 in.)
Depth: 58 cm (22.75 in.)
Weight: 60 kg (130 lbs)

Sample Tube

Type: Metal FlowThru sample tubes, for use
up to 700 °C

Sample Size: 0.3 inches diameter (7.5 mm) by
1.5 inches (40 mm)

Pressure: Up to 1000 psi

Type: Fused quartz flow-through, for use up
to 1100 °C

Sample Size: powders and pellets up to
9mm in diameter

Pressure: Ambient pressure only

Electrical

Voltage: 85 to 265 VAC
Frequency: 50/60 Hz
Power: 1100 VA, operating, max.

Environment

Temperature: 15 to 35 °C operating
0 to 50 °C non-operating
Humidity: 20 to 80% relative, non-condensing

Module Minimum Requirements

Processor: Pentium 333 MHz or equivalent
Operating System: Windows 2000 or
XP Professional
Memory: 128 megabytes of RAM
Hard Disk Space: 1 gigabyte
Graphics Card: 800 x 600 super VGA
One CD ROM drive

Options

CryoCooler

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