

# SPECIFICATIONS

## AutoChem II<sup>®</sup> 2920: Chemisorption



### ELECTRICAL

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

### CONTROL MODULE: MINIMUM REQUIREMENTS

Processor	Pentium 333 MHz or equivalent
Operating Systems	64 bit, Windows <sup>®</sup> 7 Professional or higher operating system
Hard Disk Space	1-gigabyte hard drive
Graphics Card	800 x 600 super VGA

### TEMPERATURE SYSTEM

Range	-100 °C to 1100 °C with Cryo-Cooler option Ambient to 1100 °C without Cryo-Cooler option
Selection	Digitally set, 1 °C increments
Ramp Rates	Up to 50°C per minute from 120 to 500 °C range Up to 30 °C per minute from 500 to 750 °C range Up to 10°C per minute from 750 to 1100 °C range

### OPTIONS

Vapor Generator, CryoCooler

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### GASES

Loop (Analysis)	H <sub>2</sub> , CO, O <sub>2</sub> , N <sub>2</sub> O, NH <sub>3</sub> vapors such as pyridine, water, etc.
Carrier	He, Ar, and other gases
Preparation	H <sub>2</sub> , O <sub>2</sub> , He, Ar, and others

### GAS FLOW RATE

#### All Mass Flow Controllers (MFCs)

Manual Control	0 to 100 mL/minute*
Automatic Analysis	10 to 75 mL/minute

### GAS DELIVERY

Inlet Ports	(12), 4 each for preparation gas, carrier gas and loop (analysis) gas
Temp Control	Internal gas lines and valves heated up to 150 °C

### SAMPLE TUBE

Type	Fused quartz Flow-Thru sample tubes, for use up to 1100 °C, accepts powders and pellets up to 9 mm in diameter
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### PHYSICAL

Height	62 cm (24.5 in.)
Width	66 cm (26 in.)
Depth	58 cm (22.75 in.)
Weight	60 kg (130 lbs)

### ENVIRONMENT

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

\*Rate for Hydrogen; other gases have a different range.

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