SPECIFICATIONS

ASAP® 2420

ELECTRICAL

Voltage	100/115/230 VAC (± 10%)
Frequency	50 or 60 Hz
Power	800 VA, exclusive of vacuum pumps, which are powered separately

ENVIRONMENT

Temperature	10 to 30 °C operating -10 to 55 °C storage or shipping
Humidity	Up to 90% (non-condensing) for instrument

CAPACITY

Analysis System	6 sample ports (5 for krypton), each with a constantly monitored saturation pressure port
Degas System	12 degas ports, each with independently controlled heating mantle

ANALYSIS SYSTEM

Manifold Temperature Transducer	Type: Platinum resistance device (RTD) Accuracy: ±0.10 °C by keyboard entry Stability: ±0.10 °C per month

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SPECIFICATIONS

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Manifold Pressure Transducer(s)	Range: 0 to 950 mmHg operating: 1000 mmHg maximum 0 to 10 mmHg added for Krypton option Resolution: 1000-mmHg Transducer: 0.001 mmHg 1-mmHg Transducer: 0.000001mm Accuracy: 1000-mmHg Transducer: within 0.15% of reading 10-mmHg Transducer*: within 0.15% of reading 1-mmHg Transducer:** within 0.12% of reading Includes nonlinearity, hysteresis, and non-repeatability. *The 10-mmHg transducer is active only when running krypton samples. **The 1-mmHg transducer is present only in the enhanced micropore option.
Sample Port Transducer and Po Port Transducers	Range: 0 to 950 mmHg Resolution: 0.001 mmHg Accuracy: ±0.1% Full Scale
Vacuum Transducer	

VACUUM SYSTEM

Nitrogen Pumps	2 oil-based pumps: 1 analysis, 1 degas 4 pumps available: 2 oil-free (1 analysis, 1 degas) 2 high vacuum (1 analysis, 1 degas)
Krypton Pumps	4 pumps: 2 oil-free (1 analysis, 1 degas) 2 high-vacuum (1 analysis, 1 degas) Oil-based mechanical pump: 5 x 10-3 mmHg ultimate vacuum Oil-free and high vacuum pump: 3.8 x 10-9 mmHg ultimate vacuum* *Ultimate vacuum measured by pump manufacturer according to Pneurop Standard 5608

PHYSICAL

Height	159 cm (62.5 in.)
Width	103 cm (40.5 in.)
Depth	51 cm (20.2 in.)
Weight	160 kg (350 lb)

DEGAS SYSTEM

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SPECIFICATIONS

ASAP® 2420

Capacity	12 degas ports
Vacuum Control	Selectable target pressure controls switchover from restricted to unrestricted evacuation.
Evacuation	Selectable evacuation rate from 1.0 to 50.0 mmHg/s
Manifold Pressure Transducer	Range: 0 to 950 mmHg Resolution: 0.01 mmHg Accuracy: ±0.1% Full Scale
Vacuum Transducer	Type: Thermocouple Range: 0.001 to 1mmHg Temperature Range: Ambient to 450 °C (Programmable) Temperature Control: 1 ramp during evacuation phase, 5 additional selectable ramps during heating phase Selection: Digitally set, 1 °C increments from computer Accuracy: Deviation less than ±10 °C of set point at the sensing thermocouple embedded in the heating mantle Backfill Gas: User-selectable at dedicated port, typically nitrogen or helium

COMPUTER

Minimum Requirements	Pentium CPU (or equivalent) CD-ROM drive 512 megabytes of main memory 20-gigabyte hard drive SVGA monitor (1024 x 768 minimum resolution) 32 bit, Windows® 7 Professional or higher operating system Ethernet Port, capable of communicating with a 10 base-T Ethernet card

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

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