

SPECIFICATIONS

ASAP 2050 – Xtended Pressure



PRESSURE MEASUREMENT

Range	0 to 10 Atmospheres.
Resolution	Analysis transducer: 0.00015psi
Accuracy (Analysis system only)	0.1% BFSL (Best Fit Straight Line.) Includes nonlinearity, hysteresis, and non-repeatability. Transducer manufacturer's specifications.

GASES

Argon, carbon dioxide, nitrogen, hydrogen, oxygen* and other suitable gases.

VACUUM SYSTEM

Vacuum Pump	Mechanical, two-stage, ultimate vacuum 5×10^{-3} mmHg; two pumps (one analysis and one degas)
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MANIFOLD TEMPERATURE TRANSDUCER

Type	Platinum resistance device (RTD.)
Accuracy	± 0.02 °C (by keyboard entry.)
Stability	± 0.01 °C per month

DEGAS SYSTEM

Temperature Range	Ambient to 450 °C.
Selection	1 °C increments.

*Requires oxygen-compatible vacuum pump for analysis system.

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Accuracy	Deviation less than $\pm 10^{\circ}\text{C}$ of set point at thermocouple.
Backfill Gas	User-selectable, typically helium or nitrogen.

SYSTEM CAPACITY

Sample Preparation	Two degas ports, each with independently controlled heating mantle, using servocontrolled restricted evacuation.
Analysis	One sample port; One saturation pressure tube port.
Total Operation Capacity	Up to two complete analysis units can be controlled by one computer.

CRYOGEN SYSTEM

Special Features	Patented isothermal jackets effectively maintain cryogen level constant on sample tube and Po tube during analysis while evaporation of cryogen occurs.
Capacity	3-Liter Dewar, provides at least 50 hours of unattended analysis.
Analysis Time	Unlimited. cryogen Dewars may be refilled without affecting the accuracy of results.

PHYSICAL

Height	99cm (39in.)
Width	85cm (33.5in.)
Depth	61cm (24in.)
Weight	115Kg (250lbs.)

SAMPLE SIZE

Straight-wall Stainless steel sample tube	0.50 inch outside diameter. 0.44 inch inside diameter.
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ELECTRICAL

Voltage	100/115/230 VAC.
Frequency	50/60 Hz.

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Power	800 VA, exclusive of vacuum pumps which are powered separately.
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ENVIRONMENT

Temperature	10 to 35 oC operating. -10 to 55 oC non-operating.
Humidity	Up to 90% relative (non-condensing) for instrument. 20% - 80% for computer system.

COMPUTER MINIMUM REQUIREMENTS

Processor	Pentium 333 MHz or superior.
Operating System	Windows 2000 or XP Professional.
Memory	128 megabytes of RAM.
Hard Disk Space	1 gigabyte.
Monitor	SVGA 800 × 600.
Media Drive	One CD ROM drive.

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