

# ASAP 2020 PLUS - PHYSISORPTION

Research grade results in a customer-configurable instrument to meet a wide variety of applications for mesopore, micropore, and low surface area applications.



Programmable two-station degas system for automated SOP sample preparation

A dedicated  $P_0$  sensor allows for a faster analysis and provides  $P_0$  values at the same conditions as the adsorption measurement

Six analysis gas inlets with dedicated vapor and helium free-space ports provide greater flexibility and automated selection of pretreatment, backfill, and analysis gases

Proven Isothermal Jacket Cold Zone Control provides accurate, reproducible temperature maintenance

Long duration and refillable dewar provides virtually unlimited time-of-analysis capability

Standard, independent dual vacuum systems (one for analysis, one for sample pretreatment). Also available is an optional, oil-free system

Proprietary transducer system provides unequalled stability, fast response, and low hysteresis for improved accuracy and signal to noise improvement

Coated monolithic, temperature-controlled, stainless-steel manifold provides non-contaminating, inert surface areas

## Specifications

### Pressure Measurement:

0 to 950 mmHg

### Resolution:

Up to  $1 \times 10^{-7}$  torr

(0.1 mmHg transducer)

### Accuracy:

$> 0.15\%$  of reading

### Degas System:

Ambient to 450 °C, 1 °C increments

### System Capacity:

1 analysis, 2 degas ports

### Cryogen System:

3 L,  $> 72$  hr. dewar, unlimited time with refilling during analysis

### Stable Cold Zone Temperature Environment:

Isothermal jacket for cold space control

### Continuous $P_0$ monitoring



### Optional Cryostat

A single-stage cryogenic refrigerator that operates on the Gifford-McMahon refrigeration cycle. It uses helium gas from a helium compressor(s) to offer a wide range of analytical temperatures with milli Kelvin levels of stability.