



ANALYTICAL PROCESS SYSTEMS PAS-100 PURGE AIR CONDITIONING SYSTEM TECHNICAL SPECIFICATION

SYSTEM POWER REQUIREMENTS

Voltage: 115 VAC, 1 Phase 60 Hz – Current: 15 AMPS
Voltage: 230 VAC, 1 Phase, 50 Hz - Current: 10 AMPS

CAPABILITY

The Purge Air Conditioning System is capable of simultaneously providing purge air for up to nine (9) evaporative emissions canisters each purging at **22.7 SLPM**.

The sample flow rate is adjustable up to **226 SLPM** (8 SCFM).

The air temperature is adjustable from **15.5° C - 32° C** (60° F to 90° F) at an ambient room temperature of **24° C** (75 °F). The temperature alarm limits are pre-set at **20° C** (68° F) (low alarm) and **30°C** (86° F) (high alarm).

The relative humidity is adjustable from **20% to 80%**. The relative humidity alarm limits are pre-set at 20% (low alarm) and 60% (high alarm).

ACCURACY

The humidity reading is accurate to $\pm 3\%$ RH @ 25° C (77 °F).

The temperature reading accuracy is $\pm 0.3^\circ$ C (0.5° F).



VARIABLE-SPEED PUMP

The peristaltic pump has a pumping capacity of 21 SCCM, with a pump head speed limitation of 100 RPM.

REGENERATIVE DESICCANT AIR DRYER

Dryer Capacity: -40° F (-40° C) Pressure Dew Point
Flow Capacity: 8 SCFM @ 100 PSI (226 SLPM)
Maximum Temperature: 100° F (38° C)
Maximum Pressure: 150 PSI (1034 kPa)

PRESSURE REQUIREMENTS

AIR: The maximum pressure for the compressed air input port is **1034 kPa** (150 psi).
The minimum pressure is **345 kPa** (50 psi).

WATER: The maximum pressure for the clean water supply is **552 kPa** (80 psi).
The minimum pressure is **34 kPa** (5 psi).

OPERATING TEMPERATURE

The maximum ambient temperature for the system is **40° C** (105° F).

PHYSICAL SPECIFICATIONS

Weight: The Purge Air Conditioning System weighs approximately **227 Kg** (500 lbs).

Dimensions: The enclosure measures approximately:

Height: **1981 mm** (78 Inches)
Width: **686 mm** (27 Inches)
Depth: **762 mm** (30 Inches)