

## Model 1001C Zero Air Source

*The Model 1001C Zero Air Source is designed to meet the requirements for clean-dry air when used by a dilution calibrator, purge air for permeation tube ovens, supply air for test chambers, and pollutant free air for other laboratory or environmental applications.*



The 1001C offers an option for communication connectivity to the already proven performance and longevity of the Sabio Model 1001 for remote monitoring. Also offered as an option to the 1001C enhanced source pneumatic design is the "self healing" feature that monitors the unit's moisture levels and intuitively initiates the dryers without being prompted by the user.

Equipped with dual coalescent filters and a permeation drier, moisture removal is enabled automatically using adjustable control circuitry or manual purging from the front panel. Additionally, the air source can be controlled automatically by a dilution calibrator, remotely by contact closure, or when installed on demand with an internal pressure sensor.

Air pollutants are removed using reusable dual rear mounted clear scrubber canisters for NO, NO<sub>2</sub>, O<sub>3</sub>, SO<sub>2</sub>, H<sub>2</sub>S. Other pollutants such as carbon monoxide (CO) or hydrocarbons (HC) can be removed with an internal heated oxidizer. Both types of internal heated oxidizers come equipped with front panel mounted temperature controllers which monitor and display the temperature for optimum performance.

## Specifications

*Specifications subject to change without notice*

<b>Output Concentration</b>	NO, NO2, SO2, H2S O3	< 0.025ppb < 0.3ppb
<b>With CO oxidizer</b>	CO	< 10ppb
<b>With CO oxidizer</b>	NH3 HC	< 0.10ppb < 0.20ppb
<b>Compressor</b>	Internal, Dual-piston, oil-less, long life pump	
<b>Mechanical</b>	8.75" x 16.2" x 22.25" (22.2cm x 41.2cm x 56.5cm)	
<b>Weight</b>	55lbs. standard unit 65lbs. with HC oxidizer	
<b>Electrical</b>	110V-120V, 60 Hz or 220V-240V, 50/60 Hz	
<b>Communication</b>	1 x Ethernet: 10/100Base-T (optional) 1 x RS232 (115,200 baud rate) Modbus or ML protocol (optional)	
<b>Dewpoint</b>	-20°C up to 15 SLPM/-10°C above 15 SLPM	
<b>Operating Temperature</b>	5 - 40°C	
<b>Standard Warranty</b>	Two year	
<b>Standard Features</b>	Output 30 SLPM at 35 psig (requires high flow filter)	
	Condensate/purge valve that operates both automatically and manually to drain	
	Front panel pressure gauge	
	Front panel adjustable pressure gauge	
	Front panel purge switch	
	Automatic control via contact control or a switched low voltage DC power source	
	Internal permeation dryer	
	Clear View Media canisters for removal of NO, NOx, NO2, SO2, H2S, NH3, & O3	
<b>Optional Features</b>	Internal or external CO oxidizer	
	Internal or external HC oxidizer	
	Internal pressure sensors for on-demand pump control and for monitoring output pressure	
	Rack mount kit	
	Dew point sensor with LED indicators	
	Trace level scrubbers	
	CO2 scrubber	
	Regenerative heatless dryer	
	Ethernet Connectivity	

