

Model 1001 Zero Air Generator

The Model 1001 Zero Air Source is designed to meet the requirements of clean, dry air for Multi-Gas Dilution Calibrators, reference air for Ozone Primary Standards, Purge air for permeation ovens, supply air for air test chambers and pollutant free air for other laboratory or environmental applications.



The Model 1001 is equipped with dual coalescing 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 by all Sabio calibrators via contact closure or on demand when an optional internal pressure switch is installed.

Air pollutants are removed using reusable dual rear mounted scrubber canisters for NO, NO₂, O₃, SO₂, H₂S. Other pollutants such as carbon monoxide (CO) or hydrocarbons (HC) can be removed with an internal oxidizer. Both types of internal oxidizers come equipped with front panel mounted temperature controllers which monitor and control the temperature for optimum performance.

Optional items like Dew Point, clear media canisters, pressure switch, Regenerative Dryer, and Adjustable flow meters make the Model 1001 a flexible and reliable choice for a host of applications.

Specifications

Specifications subject to change without notice

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| Air Quality | Standard Unit | NO, NO ₂ , O ₃ , SO ₂ , H ₂ S, < 0.1 ppb |
| | Standard Unit with CO Oxidizer | NO, NO ₂ , O ₃ , SO ₂ , H ₂ S, < 0.1 ppb CO < 0.03 ppm |
| | Standard Unit with HC/CO Oxidizer | NO, NO ₂ , O ₃ , SO ₂ , H ₂ S, < 0.1 ppb CO < 0.03 ppm HC < 0.2 ppb |
| Mechanical | Dimensions | 8.75 (22.2 cm) H x 16.2 (41.2 cm) W x 22.25 (56.5 cm) D |
| | Average Weight | 55-65lbs. (25-30kg.) |
| Electrical | Standard | 120 VAC 60 Hz, 470 VA operation |
| | Optional | 240 VAC, 50 Hz, 340 VA operation |
| | Dew Point | -20°C up to 15 slpm |
| Standard Features | Standard 22 SLPM at 30 psig air delivery | |
| | 3.4 liter surge/condensate tank | |
| | Condensate/purge valve that operates both automatically and manually to drain condensate | |
| | Front panel mounted pressure gauge | |
| | Front panel mounted adjustable pressure regulator | |
| | Front panel mounted purge switch | |
| | Automatic control via contact control or a switched low voltage DC power source | |
| | Internal moisture removal system | |
| | Media canisters for removal of NO, NO ₂ , SO ₂ , H ₂ S & O ₃ | |
| | Long-life brushless, double headed, oil-free compressor | |
| Quiet operation | | |
| Optional Features | Internal or external CO catalytic oxidizer | |
| | Internal HC catalytic oxidizer | |
| | Internal pressure switch for on-demand pump control | |
| | Output flow meter | |
| | Rack-mount kit | |
| | Dew Point Indicator with LED Indicators | |
| | Trace Level Scrubbers, clear view | |

