

Air Air Zero
Zero Air Zero

MODEL 1001

Zero Air System

Overview:

The MODEL1001 zero air generator is used to clean and dry the air source. The membrane dryer inside the instrument can remove moisture from the air. Molecular sieves also help remove other gases, greatly extending the life of the chemical scrubbers. The zero air generator includes an oil-free pump, SO₂, NO, NO₂, O₃, and H₂S scrubbers, and optional CO and hydrocarbon scrubbers. After entering from the inlet, the air passes through the pump and reaches a device with a pre-cooling function to remove moisture. By monitoring the pressure of the storage tank, the pump can be automatically started periodically as needed to maintain the tank pressure at a preset level, thereby extending the life of the pump and scrubbers and ensuring that the pump does not start under full load pressure. This equipment can provide pure and stable zero air for environmental air gaseous pollutant calibrators.

Features:

- Equipped with a high-temperature furnace and hydrocarbon (HC) scrubber.
- Dehydration is carried out using a membrane dryer.
- Built-in air compressor with automatic drainage function
- Can be used as flushing gas for a permeation oven
- Zero gas available for ozone generators
- The instrument is stable and reliable, and has passed the applicability test of the Quality Supervision and Inspection Center for Environmental Monitoring Instruments of the Ministry of Ecology and Environment (Certificate No. 2020-197).
- Complying with the requirements of the "Technical Requirements and Testing Methods for Continuous Automatic Monitoring Systems of Gaseous Pollutants (SO₂, NO₂, O₃, CO) in Ambient Air" (HJ 654-2013) and the "Technical Specifications for Installation and Acceptance of Continuous Automatic Monitoring Systems for Gaseous Pollutants (SO₂, NO₂, O₃, CO) in Ambient Air" (HJ 193-2013)

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Product Certification:

- Applicability Testing Certification: Qualification (Recognition) No. 2020-197
- CCEP (Environmental Protection Product Certification): CCAEPI-EP-2025-194

Technical data:

Instrument performance parameters	
Flow output	1 – 10 NL/min @ 30 psig
Dew point	< -20 °C
Concentration output	NO、NO ₂ 、SO ₂ 、O ₃ 、NH ₃ 、H ₂ S < 0.5ppb; CO < 20ppb;

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