

Zero Air Generator Model ZAG 7001

**Air Quality
Monitoring**



**Zero air generation
for ambient air gas
analyzers**

**Compact and
silencious device**



ZAG 7001 inside view

Applications:

- Check of zero point of ambient air gas analyzers
- Supply of diluent air for most of calibration systems, included Model MGC 101
- Supply of zero air for dilution-based sampling systems

Main features:

- Internal compressor with pressure control
- Internal PSA dryer
- Long-lasting filtering cartridges
- Automatic condensates removal

PALGO

Hammarvägen 1 040 - 664 28 50
232 37 Arlöv
info@palgo.se www.palgo.se

www.environnement-sa.com



Air Zero Generator Model ZAG 7001

Specifications:

- Residual pollutant concentrations:
 - NO, NO₂, NO_x, SO₂, O₃, H₂S: <0.5 ppb
 - CO: < 25 ppb (with optional scrubber)
 - Hydrocarbons: < 20 ppb (with optional scrubber)
- Flow rate: 1-20 NL/min at 2.07 bars (30 psig)
- Dew point:
 - < -30 °C up to 10 NL/min
 - < -10 °C up to 20 NL/min
- Dryer: Pressure Swing Adsorption dryer (PSA)
- Pump: internal lon-life, oil-less piston pump
- HC scrubber temperature: adjustable from 300 °C up to 480 °C for improved THC removal
- Dimensions:
 - 482 x 597 x 222 mm (W x D x H)
 - 19 x 23.5 x 8.75 inches (W x D x H)
- Weight: 20.4 kg / 45 lbs
- Power supply: 100 to 250 VAC, 50-60Hz
- Consumption: <500 Watts
- Operating temperature: +4 to +44 °C
- Performance temp. range: +15 to +30 °C

Options:

- CO & THC catalytic converter

Operating principle:

Model ZAG 7001 Zero Air Generator is a pure air generator system that is capable of continuous delivery of up to 20 standard liters per minute (SLPM), 30 pounds per square inch (PSI) of dry, contaminant-free air.

The air is suitable for use as: a zero reference calibration gas, ultra-pure combustion air for flame ionization detector, and service air for pneumatically operated valves.

The system is capable of delivering air free from water vapor, particulates, sulfur dioxide (SO₂), Hydrogen Sulfide (H₂S), Oxides of Nitrogen (NO), Nitrogen Dioxide (NO₂), Ozone (O₃), Carbon Monoxide (CO) and Hydrocarbons (HC).

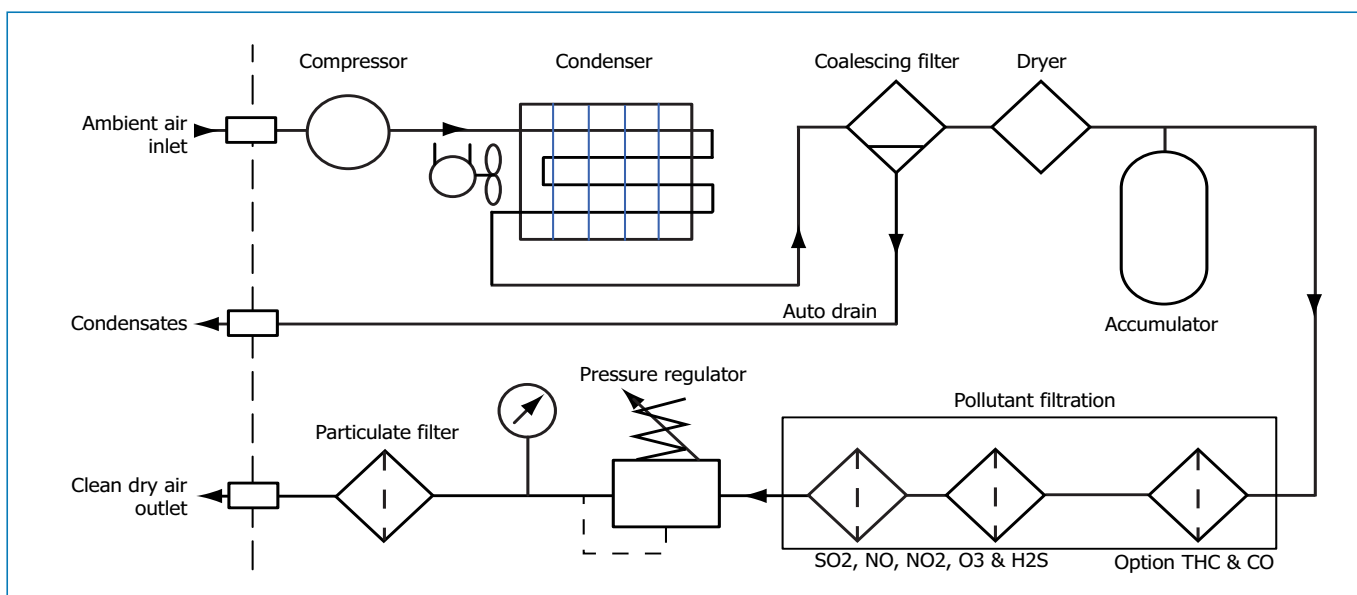
The state-of-the-art PSA molecular sieve removes water and produces air with a dew point of less than -30°C. An 80 seconds drain interval negates the potential of excess water build-up.

Model ZAG 7001 consists of oil-less piston pump and scrubbers to remove SO₂, NO, NO₂, O₃ and H₂S. Optional scrubbers are available to remove CO and Hydrocarbons. A ballast tank is standard in the system. It extends both the pump and scrubber life by cycling the pump automatically only as needed.

Model ZAG 7001 offers automatic pneumatic control. It will automatically turn on and off based on the demand of the system that it is supporting.

Operation of the system has been simplified so that the operator can set the output pressure desired through a regulator on the front panel of the system. The output pressure gauge is located to accurately reflect the output pressure of the system.

The Zero Air Generator is designed to fit into a 19" rack with slides or used in a portable mode. Strict attention has been paid to the weight of all components to make this system as light as possible.



Specifications subject to change without prior notice - ref.: 1108 - ZAG7001_uk - Gimnick