ZERO AIR GAS GENERATOR
SERIE ZA

The Zero Air generators produce dry and hydrocarbon-free air, using air from oil-free compressors, thus avoiding the need to use traditional bottles that are often complex to change. Designed with safety and convenience in mind, this system will eliminating the need for inconvenient high pressure gas cylinders. This complete turnkey system is engineered with the highest quality components, is easy to install and requires only minimal annual maintenance. The ergonomic, compact and silent design makes the Zero Air series the ideal solution for the following analytical applications.

Application :

- GC-FID
- NPD
- FPD
- PFPD
- THA

Benefits and Savings

Better detector performance

The reduction of hydrocarbons, including methane to < 0.05 ppm decreases the background noise level and gives the baseline much better stability, considerably increasing detector sensitivity and ensuring precise analytical results.

Increased laboratory efficiency

A constant, uninterrupted gas supply of guaranteed purity eliminates interruptions of analyses to change cylinders and reduces the amount of instrument re-calibrations required.

Save money

The unit only requires connection to a suitable socket and to external source of compressed air.
The investment can be paid back in less than one year

Improved safety

Zero air produced at low pressure and ambient temperature removes the need for high pressure cylinders

Simple installation

Gas generators can be installed in the laboratory, on or under a bench, eliminating the need for long gas lines from cylinders secured elsewhere

Standard Features

* **Various flow rate : 1.5, 3, 6, 15, 30 L/min**
* **Purity :**
  HC < 0.05 ppm
  CO < 0.05 ppm
* **Pressure : up to 6.5 bar**
* **External clean and dry air compressor required**

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Zero Air generators use three steps to transform ambient air into analytical grade air.

Step 1: Pre-filtration.

The external oil-free compressor delivers air through a high efficiency filter that traps any particles that may damage the system. The filter has an automatic purge system, and traps oil, water and any other particles larger than 5 microns in size.

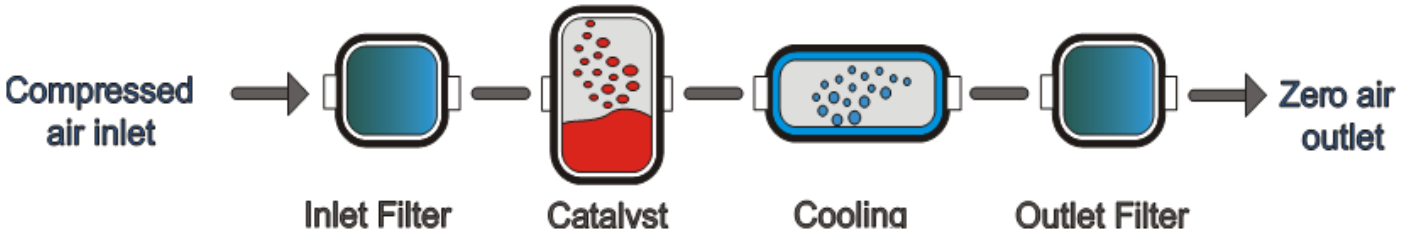
Step 2: HC and CO trapping.

The air leaving the filter enters a high-temperature platinum catalyst, which through oxidation eliminates hydrocarbon molecules down to < 0.05 ppm.

Step 3: Final filtration.

A high-efficiency filter is used to prevent any kind of particles from entering the instrument.

External compressor (option): following an agreement with a leading manufacturer operating a sales and service network in many cities throughout the world, we can supply the right “oil free” compressor for different flow requirements.



Technical Specifications

Model	ZA-1500	ZA-3000	ZA-6000	ZA-15000	ZA-30000
Flow rate (max)	1,5 l/min	3,0 l/min	6,0 l/min	15,0 l/min	30,0 l/min
OUTLET pressure (max)	6.5 Bar(94 psi) - 0,5 (8psi) at maximum flow				
Total hydrocarbon content	< 0.05ppm				
Startup time	40 min				
Max inlet hydrocarbon content Water dewpoint	100ppm < - 20°C				
Inlet air Supply Pressure	3 Bar (43psi) - 10 Bar (145 psi)				
Dimensions	43x34x20(H) cm				
Net weight	8Kg		9Kg	18Kg	20Kg
Supply voltage	90-240Vac 50/60Hz				
Installation Power (max)	100W (130VA)				
Inlet/outlet Connections	1/8" Female				

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