

ZERO AIR

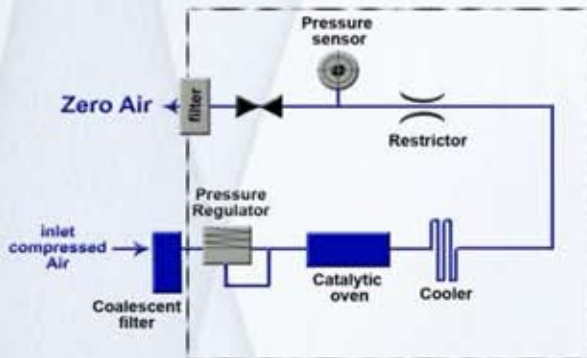
AIR GENERATOR

Zero Air series produces laboratory grade purified air for FID (Flame Ionization Detectors) and other detectors like FPD. Designed with safety and convenience in mind, this system will generate purified and hydrocarbon free air from an existing in-house oil free compressed air supply, eliminating the need for inconvenient high-pressure gas cylinders. The **Zero Air** series remove HC pollutants to less than 0.1 ppm, and all kind of particles. The typical flows are between 1.5 NL/min and 6 NL/min. Operation of the generator requires only a small amount of electric current. This complete turnkey system is engineered with the highest quality components, is easy to install, and requires only minimal annual maintenance.



Requires external compressed air supply.

Functioning principle:

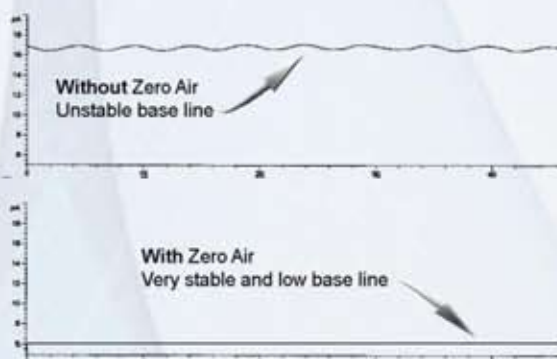


Air is initially passed through highly efficient pre-filtration ensuring that quality air enters the system and does not damage the internal components. The pre-filter removes bulk moisture and larger particles greater than 5 microns in size. After this filtration, the air is pressure regulated. Air is next channeled into a stainless steel catalyst chamber where any background hydrocarbons or carbon monoxide are oxidized. This chamber is filled with a highly efficient platinum + palladium catalyst, heated to very high temperatures to insure hydrocarbon removal to less than 0.1 ppm. A final high-grade filter is used to remove 99.99% of particles greater than 0.5 microns in size. The outlet pressure is about one half bar under the inlet pressure.

THE APPLICATIONS

LABORATORY

The **Zero Air** is mainly used to alimnt the Flame of GC with hydrocarbon free Air. By using the **Zero Air** generator, the base line of the GC will be very low and stable, giving the best possible accurate measurement. The Zero Air Generator can also be used to perform the Zero of Total Hydrocarbon Analyzers.



Applications of Zero Air:

- Flame Gas for GC-FID / GC-FPD / THC
- Zero Air for THC

SPECIFICATIONS

Zero Air-1500	Flowrate : 1500 ml/min *	* need external oil-free compressed Air
Zero Air-3000	Flowrate : 3000 ml/min *	
Zero Air-6000	Flowrate : 6000 ml/min *	

Flowrate :	1500 Nml/min / 3000 Nml/min / 6000 Nml/min depending on model
Delivery pressure:	Up to 7 barg (100 Psig) (depending of the inlet pressure)
Air purity :	< 0.1 ppm Total Hydrocarbons
Particle filtration level:	< 0.1 µm

User interface:	Pressure setting, system status, user parameter Touch screen / LCD display
Remote command:	USB / download of the logfile possible

Dimensions [cm] :	16x35x25 (WxDxH)
Shipping Dim [cm] :	41x51x36 (WxDxH)

Net weight [kg]	7Kg (for all models)
Shipping weight [kg]	10Kg (for all models)

Power consumption [Watt]:	260 (for all models)
Power requirements:	230V/50Hz - 230V/60Hz - 115V/60Hz - 100V/60Hz

ARTICLES, OPTIONS AND SPARE PARTS

6710 05 01X	Zero Air 1500	Where	X=0 for 230V/50Hz or 230V/60Hz
6710 05 02X	Zero Air 3000		X=2 for 115V/60Hz
6710 05 03X	Zero Air 6000		X=4 for 100V/60Hz

SPARE PARTS and CONSUMABLES for maintenance :

6710 05 110	Set of filters (coalescent / dust filter)
6710 05 210	Replacement catalysis oven all models (new)



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