



Air Generators

The low and constant hydrocarbon content of zero air helps improve baseline stability of combustion detectors and reduces the frequency of recalibrations.

ZERO AIR WITHOUT INTEGRATED COMPRESSOR: produces dry and hydrocarbon-free air < 0.05 ppm, using a heated catalytic technology and connecting it to a dry compressed air supply. Can be used individually or coupled to any one of the F-DGSi H_2 generator to form an all-in-one FID gas station solution.

MAIN FEATURES AND BENEFITS

HIGH PERFORMANCE CATALYST

- **Compact, modular design.** For easy mounting of a F-DGSi Hydrogen generator.
- Quick and easy servicing. Changing the filters once a year takes a few minutes.
- Purity < 0.05 ppm (CH₄).
- · Facility for integration with a dedicated air compressor.
- 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-calibration required.
- **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.



PRINCIPLE OF OPERATION

Zero Air Generators use two 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.

SERIES ZA - APPLICATIONS :

GC-FID, FPD, NPD / THA / GAS SENSING

Specifications and Ordering Information

MODEL	Flow rate (Max)	Outlet pressure (Max)	Total Hcs content	Start up time	Max inlet hydrocarbon content	Water dewpoint required at the air inlet	Inlet air Supply Pressure	Dimensions W x H x D cms	Net weight Kg	Installation Power (Max)
ZA-1500	1,5	6.5 bar	< 0.05 ppm	40 min	100 ppm	< 20 °C	3 – 10 bar	43 x 34 x20	8	240 W / 280 VA
ZA-3000	3.0	6.5 bar	< 0.05 ppm	40 min	100 ppm	< 20 °C	3 – 10 bar	43 x 34 x20	8	240 W / 280 VA
ZA-6000	6.0	6.5 bar	< 0.05 ppm	40 min	100 ppm	< 20 °C	3 – 10 bar	43 x 34 x20	9	240 W / 280 VA
ZA-15000	15.0	6.5 bar	< 0.05 ppm	40 min	100 ppm	< 20 °C	3 – 10 bar	43 x 34 x20	18	240 W / 280 VA
ZA-30000	30.0	6.5 bar	< 0.05 ppm	40 min	100 ppm	< 20 °C	3 – 10 bar	43 x 34 x20	20	240 W / 280 VA





Air Generators

MAIN FEATURES AND BENEFITS

- Available with or without built-in-air compressor.
- Quiet thanks to the Soundproofed compressor box and anti-vibration features.
- Auto start.
- Audible and alarm display with help menu.
- Visual maintenance indication.
- Outlet flow indicator.
- Energy saving Mode: Enables the compressor to switch off when nitrogen supply is not required.
- Trend graph QA reporting.
- Remote access to screen using internet or GSM.
- Fitted with wheels.



SERIE UZAG / TOC - APPLICATIONS series UZAG : GC-FID, FPD, NPD / THA APPLICATIONS series TOC : ELECTRONIC NOISE / TOC

Specifications and Ordering Information

MODELS	Туре	Flow rate I/min	Purity	Outlet Pressure Bar g	Inlet Air pressure required Bar	Inlet Air Flow rate required I/min	Dimensions W x H x D cm	Weight Kg	
UZAG1E UZAG1E	0 1	1.0 1.0	CH ₄ , CO, NOx out < 0.05 ppm CO ₂ level out	5.5 5.5	7	2.25	34 x 71 x 69 34 x 71 x 69	45 60	
UZAG3E UZAG3E	0 1	3.0 3.0	 5 ppm Water dewpoint 	5.5 5.5	7	6.75 -	34 x 71 x 69 34 x 71 x 69	45 60	
UZAG6E UZAG6E	0 1	6.0 6.0	-50°C Particle filtration level 0.1 micron	5.5 5.5	7	13.50 -	34 x 71 x 69 34 x 71 x 69	45 60	ATOR
UZAG10E UZAG10E	0 1	10.0 10.0		5.5 5.5	7	22.50	43 x 78 x 77 43 x 78 x 77	80 96	GENERATOR
UZAG20E UZAG20E	0 1	20.0 20.0		5.5 5.5	7	45.00 -	43 x 78 x 77 43 x 78 x 77	80 96	ZERO AIR 0
UZAG35E UZAG35E	0 1	35.0 35.0		5.5 5.5	7 -	78.75 -	43 x 78 x 77 43 x 78 x 77	80 96	ZE
 UZAG50E UZAG50E	0 1	50.0 50.0		5.5 5.5	7 -	112.50 -	43 x 78 x 77 43 x 78 x 77	80 96	

								OR
0	1.5	CH ₄ , CO, NOx out	5.5	7	16.5	34 x 71 x 69	45	NERAT
1	1.5	CO ₂ level out < 1 ppm Water dewpoint -70°C Particle filtration level	5.5			34 x 71 x 69	60	TOC GEI
	0		 < 0.05 ppm 1 1.5 CO₂ level out < 1 ppm Water dewpoint -70°C 	 < 0.05 ppm 1 1.5 CO₂ level out < 1 ppm 5.5 Water dewpoint -70°C Particle filtration level 	 < 0.05 ppm 1 1.5 CO₂ level out < 1 ppm 5.5 Water dewpoint -70°C Particle filtration level 	 < 0.05 ppm 1 1.5 CO₂ level out < 1 ppm 5.5 - Water dewpoint -70°C Particle filtration level 	 < 0.05 ppm 1 1.5 CO₂ level out < 1 ppm 5.5 34 x 71 x 69 Water dewpoint -70°C Particle filtration level 	 < 0.05 ppm 1 1.5 CO₂ level out < 1 ppm 5.5 34 x 71 x 69 60 Water dewpoint -70°C Particle filtration level

Type : - 0 = Without compressor 1 = With compressor





Air Generators

FT- IR PURGE GAS GENERATOR BUILT IN AIR COMPRESSOR: It is specifically designed for use with FT-IR spectrometers to provide a purified purge and air bearing gas supply from compressed air. The unit provides instruments with CO₂ free compressed air at less than -70°C dewpoint with no suspended impurities larger than 0.01 micron 24 hours/day, 7 days/week.

MAIN FEATURES AND BENEFITS

- · Built-in-air compressor.
- · Quiet thanks to the Soundproofed compressor box and anti-vibration features.
- Auto start.
- Audible and alarm display with help menu.
- Visual maintenance indication.
- Outlet fl ow indicator.
- Energy saving Mode: Enables the compressor to switch off when Air Purge Gas supply is not required.
- Fitted with wheels.
- · Increases FT-IR sample throughput and maximises up-time.
- Improves signal-to-noise ratio even on non-purge systems.
- Better detector performance. The TOC AIR generator reduces CO2 level
 1 ppm for TOC application and Electronic Noise. The FT-IR Purge Gas generator generates cleaner background spectra in a shorter period of time and more accurate analysis by improving the signal-to-noise ratio.
- 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.
- Improved safety. TOC AIR or FT-IR purge gas 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.

SERIES FT - IR - APPLICATIONS : FT-IR

Specifications and Ordering Information

MODEL	Flow rate (Max)	Outlet pressure (Max)	CO ₂ concentration	H ₂ O Dew point	Min/Max. Ambient temperature	Built with in Air Compressor	Dimensions W x H x D cm	Net weight Kg
FT-IR 30/1	30 L/min	80 Psig	< 1 ppm	-70°C	5°C -35°C	yes	43 x 78 x 77	100

