

ZA TOTAL Air

Zero Air generator

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The AirGen series **ZA-TOTAL** is able to remove the total hydrocarbons to less than 0.05 ppm from the external compressed Air. It is also able to remove other pollutant like Humidity, CO₂, CO, NO_x, SO₂ and Hydrocarbons. Very small in size, the ZA-TOTAL can filter up to 30 L/min of compressed Air and can withstand a pressure up to 8 bar (115 PSI). The reduction of hydrocarbons, including methane, and carbon monoxide decrease the background noise level and gives much better baseline stability, considerably increasing detector sensitivity and ensuring precise analytical results. The hydrocarbons and CO are removed with a catalytic oven filled with palladium, the Humidity and CO₂ is removed with a dual molecular sieve PSA system, NO is removed with Purafil and other components are removed with an active charcoal filter.

Main Applications

- GC-FID
- GC-NPD
- GC-FPD
- GC-PFPD
- THA
- Gas sensing

Main Advantages

- ✓ Easy use and quick installation
- ✓ High flow rate up to 30 L/min
- ✓ Pressure up to 8 bar
- ✓ RS 485 as standard
- ✓ Purity:
 - < 0.05 ppm THC
 - < 0.05 ppm CO NO_x SO₂
 - < 5 ppm CO₂
- ✓ No maintenance
- ✓ Reduced foot print
- ✓ Compatible with HG BASIC and HG PRO





Specifications

Models: ZA TOTAL	1500	3000	6000	15000	30000
Zero Air outlet					
Flow rate (Max)	1.5 l/min	3.0 l/min	6.0 l/m	15.0 l/min	30.0 l/min
Outlet pressure (min)	2 bar				
Outlet pressure (Max)	Inlet pressure – 1 bars (14.5 psi)				
Total hydrocarbon content	< 0.05ppm				
Total CO Nox SO ₂	< 0.05ppm				
Total CO ₂	< 5 ppm				
Dewpoint *1	< -75°C (-103°F)			< -70°C (-94°F)	
Air inlet					
Air Inlet requirement	ISO 8573-1:2010 Class [2:3:1]				
Max inlet hydrocarbon content	100ppm				
Min supply pressure	6 bars (87psi) *2				
Max supply pressure	9 bars (130 psi)				
Temperature (min / Max)	1°C (34°F) / 35°C (95°F)				
Communication					
RS485	Standard				
General data					
Supply voltage	100-240Vac (±10%) 47..63Hz				
Connection type	IEC320-C14				
Nominal power (Max)	100W (240W)		170W (240W)		
Fuse rating (5x20mm)	4A (250VAC -T)				
Dimensions (W x D x H)	27 x 44 x 28 cm		27 x 44 x 41cm		
Net weight	< 28 kg		< 40 kg		
Connections					
Outlet port	1/8" female BSPP				
Inlet port	1/8" female BSPP				
Water purge	Threaded ISO M5 female				
Operating conditions					
Temperature	5-35°C (41-95°F)				
Humidity (Max, non condensing)	80% at 25°C (77°F)				
Noise	< 35dB(A)				
IP rating	IP20				

*1 Atmospheric Dew Point (ADP); Dew point value with inlet Hydrocarbon content max. 10 ppm

*2 7 bar (101.5 psi) for the declared purity level

Ordering codes

Gas Generators

6920.40.015	ZA TOTAL 1500
6920.40.030	ZA TOTAL 3000
6920.40.060	ZA TOTAL 6000
6920.40.150	ZA TOTAL 15000
6920.40.300	ZA TOTAL 30000

Consumable

6930.00.150	KIT filters (inlet and outlet) for ZA FID / ZA TOTAL
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