

COSMOS ZA.TOTAL

Zero Air Total Gas generator for GC

Reference : COSMOS.ZA.T.[Flow rate]



Description

The COSMOS Zero Air Total generators produce dry and hydrocarbon-free air, using air from oil-free compressors, to be used as detector gas for GC. 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 with an active charcoal filter. 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. 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 stackable design makes the Zero Air Total series the ideal solution for the your GC gas supply.

Applications



UNIQUE AND INTELLIGENT OPERATOR INTERFACE WITH REMOTE ACCESS

Benefits & 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: 1.0, 1.5, 3, 6, 15, 30 L/min
- Purity:
 - HC, CO < 0.05 ppm
 - NO_x, SO₂ < 0.05 ppm
 - CO₂ < 5 ppm
- Pressure: up to 6.5 bar (94 psi)
- External clean and dry air compressor required
- Compact, space-saving modular stackable design
- Comptabile with COSMOS Air Compressor
- LED indicators status (Ready, Warm up, Stand-by, Alarm, Off)
- Remote PC monitoring and diagnostic analysis via USB/RS232 to interface the unit with customer's PC software (allow to carry out checks and maintenance effectively, only via a remote connection)

ZERO
AIR
TOTAL

MODELS	ZA.T.1000	ZA.T.1500	ZA.T.3000	ZA.T.6000	ZA.T.15000	ZA.T.30000
GENERALS INFORMATIONS ZERO AIR TOTAL						
Zero air flow rate (L/min)	1.0	1.5	3	6	15	30
HC/CO outlet content	< 0.05 ppm					
NOx, SO2	< 0.05 ppm					
CO2	< 5 ppm					
Dewpoint	< -75°C (-103°F)					
Zero air pressure outlet	Maximum 6.5 bar (94 psi)					
Starting time	40 min	45 min		50 min		
Temperature range	From 5 - 35°C (4 - 95°F) and humidity 80% to 25°C (77°F)					
LED indicators status	Ready, Warm up, Stand-by, Alarm, Off					
Dimensions (W x H x D)	30 x 15 x 54 cm (12" x 6" x 21")					
Weight (kg/lbs)	14 / 30.8	15 / 33		20 / 44	22 / 48.5	
Fuse	2 A (5 x 20 mm)					
Power consumption	240 W (280 V ac)					
Electrical supply	90 - 240 V ac / 50 - 60 Hz					
GENERALS INFORMATIONS FOR INLET AIR						
Water Dew Point at the inlet	< -20°C (-4°F)					
HCs concentration Max. at the inlet	100 ppm					
Maximum inlet air temperature	40°C (104°F)					
Inlet air pressure (min/max)	4,5 - 10 bar (65 - 145 psi)					
CONNECTION						
Inlet/outlet connection	1/8" G F					
COMMUNICATION						
USB/RS232/PC Control	In series					
COSMOS AIR COMPRESSOR	110V			230V		
Part Number	COSMOS AIR.COMP-USA			COSMOS AIR.COMP-EU		

Gold Service
 — Satisfaction Guaranteed —

The products are guaranteed 24 months*. Beyond, your investment continues to be supported by our maintenance program **[Gold Service]**. Our world class technical assistance offers Programmed preventive maintenance to ensure optimal performance of your Gas generator F-DGSI and a priority intervention in case of failure.

*Year 2 of warranty subject to generator being serviced at end of the first year by a F-DGSI-approved agent in accordance with fixed annual maintenance schedule. For full terms and conditions, visit www.f-dgs.com

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