

# COSMOS N2 / ZN2

## Nitrogen Gas generator for GC

Reference : COSMOS.N2.[Flow rate] / ZN2.[Flow rate]



## Description

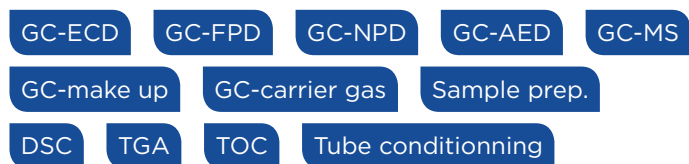
The COSMOS N2 / ZN2 is designed to produce safe regulated supply of high purity up to 99,9995% for GC-make-up, GC-carrier gas, headspace vial pressurization, purge and trap, tube conditioning for thermal desorption.

The COSMOS Nitrogen use the reliable and efficient pressure swing absorption (PSA) technique using carbon molecular sieve to remove oxygen and moisture to produce high purity Nitrogen.

The COSMOS N2 / ZN2 is built with a catalyst to remove hydrocarbon < 0.05 ppm.

The COSMOS Nitrogen can be stacked to any COSMOS module (Hydrogen, Zero Air, Air Compressor) to give you a complete self contained GC gas solution.

## Applications



## Benefits & Savings

### 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 ECONOMY

Pure nitrogen gas produced as standard.

### IMPROVED SAFETY

Nitrogen produced at low pressure and ambient temperature removes the need for high pressure cylinders.

### SECURITY OF SUPPLY

Can be stacked with the COSMOS Air Compressor as an option guarantees continuous gas supply, independent of in house compressed air supply.

### 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.



UNIQUE AND INTELLIGENT OPERATOR INTERFACE WITH REMOTE ACCESS

## Standard Features

- Suitable for carrier gas and detector gas
- Ultra-fast start-up time, to reach operating purity
- Minimum maintenance with annual filters change
- Fully regenerative PSA technology : reduced risk of gas contamination and phthalate free
- Catalyst module for hydrocarbons level < 0.05 ppm (for COSMOS ZN2)
- 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)
- LED indicators status (Ready, Warm up, Stand-by, Alarm, Off)
- Compact space saving modular stackable design
- Compatible with COSMOS Air Compressor

N2

MODELS		N2.400	N2.800	N2.1000	ZN2.400	ZN2.800	ZN2.1000
GENERALS INFORMATIONS NITROGEN							
N2 flow rate L/min via O2 content	5 ppm > 99.9995%	0.4	0.8	1.0	0.4	0.8	1.0
	100 ppm (> 99.99%)	0.8	1.6	1.8	0.8	1.6	1.8
Catalyst module		N/A			< 0.05 ppm (CH4)		
Outlet pressure		5.5 bar (80 psi)					
Min/Max Air inlet pressure		6 - 8 bar / 87 - 116 psi					
Min inlet Air quality		ISO8573 - 1:2010 1.4.1					
Start-Up time for purity		1 hour					
Outlet particule		< 0,1 µ					
LED indicators status		Ready, Warm up, Stand-by, Alarm, Off					
Dimensions (W x H x D)		27 x 47 x 38 cm (10.5" x 18.5" x 15")					
Weight (kg/lbs)		35 / 77		35.5 / 78	37 / 81.5		37.5 / 82.5
Power consumption		40 W			240 W		
Electrical supply		110 - 120 V 60 Hz / 220 - 240 V 50 Hz					
CONNECTIONS							
Inlet / Outlet		G 1/4" (BSP) Female					
COMMUNICATION							
USB/RS232/PC Control		In series					
OPERATING/STORAGE CONDITIONS							
Temperature range		From 5 - 35°C (41 - 95°F) and humidity 80% to 25°C (77°F)					
Noise		< 45 db					
IP Rating		IP20					
COSMOS AIR COMPRESSOR		110V			230V		
Part Number		COSMOS AIR.COMP-USA			COSMOS AIR.COMP-EU		

**GoldService**  
— 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](http://www.f-dgs.com)

GS: **TECNOLOGIA APLICADA** 

Certified Product

