NitroGen

NG EOLO XL
ZNG EOLO XL (CH4 scrubber integrated)

PSA UHP Nitrogen generator

Main applications

- GC
- ICP
- TOD
- DMA
- TMA
- TGA
- DSC

The **NG EOLO XL** Ultra High Purity Nitrogen Generators are engineered to transform standard compressed air into a safe regulated supply of Nitrogen with a purity up to 99.9995%.
They are equipped with columns containing carbon molecular sieve that remove the oxygen, some hydrocarbons, moisture and carbon dioxide and subsequently release only ultra high pure Nitrogen gas.
The **ZNG EOLO XL** series is also equipped with a catalyst module to remove hydrocarbons (<0.1ppm).
Exclusive electronic flow control that allows to generate Nitrogen with higher purity using a smaller volume of air and consequent reducing energy costs and the maintenance of external compressor.
Continuous control of the operating parameters to maintain the system at its maximum efficiency.

Main advantages

- ✔ Generates Nitrogen on demand from external compressed air
- ✔ Designed to run 24 hours a day
- ✔ Less bulky than the Nitrogen high pressure cylinders and safe improvement due to their elimination from laboratory
- ✔ Low power, low noise, low maintenance
- ✔ Internal Nitrogen tank
- ✔ Catalyst module to remove hydrocarbons in ZNG series

Evolution
in Gas Generators

Specifications

Models: NG EOLO XL	5	10	16	18	Z - 5	Z - 10	Z - 18
N2 outlet							
Flow rate (Max)	5 l/min	10 l/min	16 l/min	18 l/min	5 l/min	10 l/min	18 l/min
Outlet pressure (Max)	Air Inlet pressure – 2 bar (29 psi)						
Nitrogen purity[*1]	99.9999% @ 5 l/min	99.9999% @ 10 l/min	99.9995% @ 16 l/min 99.99% @25L/min 99.9% @30 l/min[*2]	99.999% @ 18 l/min 99.99% @30 l/min 99.9% @ 35 l/min[*2]	99.9999% @ 5 l/min	99.9999% @ 10 l/min	99.9995% @ 18 l/min 99.995% @30 l/min
Outlet Dew-point [*3]	<-50°C (-58°F)						
Outlet particulate	0.01 micron						
Hydrocarbon content	-				< 0.1 ppm (in series ZNG)		
Air inlet							
Air inlet requirement	ISO 8573-1:2010 Class [1:3:1]						
Flow rate (Max)	75 l/min	95 l/min	110 l/min	120 l/min	75 l/min	95 l/min	120 l/min
Supply pressure (min-Max)	6.5 bars (95 psi) - 10 bars (145 psi) [*4]						
Recommended temperature	< 30°C (86°F)						
Communication							
LCD with touch-screen	Standard						
RS485	Standard						
RS232	Standard						
Digital I/O	Standard						
General data							
Supply rating (min-Max)	100-240Vac (±10%) 50/60 Hz						
Connection type	IEC320-C14						
Nominal power (max)	280W						
Fuse rating (5x20mm)	4A (250VAC – T)						
Net weight	< 180 kg						
Dimensions (W x D x H)	50 x 56 x 120 cm						
Connections							
Outlet filter port	1/8” female BSPP						
Inlet filter port	1/4” female BSPP						
Drain port	Quick fitting for tube 8mm						
Operating/storage conditions							
Working Temperature	5-40°C (41-104°F)						
Storage Temperature	1-50°C (34-122°F)						
Humidity (max, non condensing)	70% [5-40°C (41-104°F)]						
Noise	< 35dB(A)						
IP rating	IP20						
Pollution degree rating	2 (with no aromatic compounds)						
Altitude	< 2000m						

[*1] The purity refers to the residual oxygen
[*2] With an external tank >50l; Inlet pressure > 9bar (130 psi)
[*3] Atmospheric Dew Point (ADP)
[*4] Suggested inlet pressure for optimal operation of the N2 generator >= 8 bar (116 psi)

Ordering codes

Gas Generators

6920.72.005	NG EOLO XL 5 litres
6920.72.010	NG EOLO XL 10 litres
6920.72.016	NG EOLO XL 16 litres
6920.72.018	NG EOLO XL 18 litres
6920.72.105	ZNG EOLO XL 5 litres with catalyst oven
6920.72.110	ZNG EOLO XL 10 litres with catalyst oven
6920.72.118	ZNG EOLO XL 18 litres with catalyst oven

Consumable

6930.00.143	Filter elements 8000 hours for NG EOLO XL / ZNG EOLO XL
6930.00.144	Filter elements + silencers 16000 hours for NG EOLO XL / ZNG EOLO XL

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