

Z.NESO

Zero Nitrogen Gas Generator for GC

Reference : Z.NESO.[Flow rate]/0 (Without compressor)
Z.NESO.[Flow rate]/1 (With compressor)



Description

With 3 models, 1 l/min to 5 l/min, the Z.NESO Nitrogen range provide a High Purity Nitrogen solution for GC/ICP/TOC instrument.

For the Z.NESO, a heated catalyst oxidises CH₄ from the Nitrogen gas flow providing Zero Nitrogen with Total hydrocarbon less than 0.05 ppm.

The Z.NESO is available without or with integrated oil free air compressor using the **Energy Saving Technology mode (EST)**. It is extremely compact and quiet in operation.

The generator is controlled using the latest in color touch screen technology to display the process in real time, inlet / outlet pressure, N₂ Flow and status of the system with remote access for diagnostic control.

Utilizing **Advanced technology PSA** of separating Nitrogen and Oxygen to produce high quality Nitrogen gas on demand 24/7.



UNIQUE AND INTELLIGENT OPERATOR
INTERFACE WITH REMOTE ACCESS

Applications

GC-ECD

GC-Carrier gas

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

Integral oil free 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.

Standard Features

- Intelligent color touch screen to provide simple and user friendly management of all functions of the unit
- Fully regenerative PSA technology
- Without or with integral oil free air compressor
- Quiet thanks to the Soundproofed compressor box and anti-vibration features
- Option :
Oxygen sensor : Online N₂ Purity monitoring capability
- Catalyst module : THC < 0.05 ppm
- Auto start
- Fast start-up purity < 60 min
- Audible alarm display and Visual maintenance indication with history log
- Outlet flow indicator
- Energy Saving Technology (EST) :
 - Switch off the compressor when gas supply is not required
 - Allowing low energy consumption and increasing durability of the compressor
- Remote PC monitoring and diagnostic analysis via USB to interface the unit with customer's PC software (allow to carry out checks and maintenance effectively, only via a remote connection)
- Compact design
- Fit with wheels

N₂

MODELS	Z.NESO.1		Z.NESO.3		Z.NESO.5	
Compressor	0 (Without)	1 (With)	0 (Without)	1 (With)	0 (Without)	1 (With)
GENERALS INFORMATIONS						
Max Nitrogen Flow rate	1 L/min		3 L/min		5 L/min	
Max Nitrogen pressure	6 bar (87 psi)					
Nitrogen purity	99.9995% (< 5 ppm O2) ; Total HCs < 0.05 ppm					
Particles	0.01 μ					
Inlet Air flow required @ 8 bar (116 psi) max	12 L/min	N/A	36 L/min	N/A	30 L/min	N/A
Min Inlet Air quality	ISO8573 - 1:2010 1.4.1	N/A	ISO8573 - 1:2010 1.4.1	N/A	ISO8573 - 1:2010 1.4.1	N/A
Touch screen	Touch screen (operating parameters, system status, alarms and maintenance)					
Max Relative Humidity	80% RH @ 25°C (77°F)					
Temperature range	From 5 - 25°C (41 - 77°F)					
Max Altitude	3000 Meters					
Noise level @ 1M	< 25 dB (A)	50 dB (A)	< 25 dB (A)	52 dB (A)	< 25 dB (A)	52 dB (A)
Dimensions (W x H x D)	47.5 x 66.2 x 65 cm (18.7" x 26" x 25,6")		47.5 x 66.2 x 79 cm (18.7" x 26" x 31")			
Weight (kg/lbs)	56 / 122	60 / 132	73 / 161	96 / 211	93 / 205	120 / 264
Power consumption	430 VA	655 VA	430 VA	1130 VA	430 VA	1130 VA
Electrical supply	220 - 240 V ac / 1 ph / 50 - 60 Hz					
	110 - 120 V ac / 1 ph / 50 - 60 Hz					
Fuse	10A					
CONNECTIONS						
Nitrogen outlet	G 1/4" (BSP) Female					
Air Inlet	G 1/4" (BSP) Female	N/A	G 1/4" (BSP) Female	N/A	G 1/4" (BSP) Female	N/A
COMMUNICATION						
USB/PC Control	In series					

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

GS: TECNOLOGIA APLICADA

Certified Product

