

Tower High purity Nitrogen Gas Generator

« Serie T.N2.HP/T.ZN2.HP »

The F-DGSi Tower High Purity (HP) Nitrogen Generators are engineered to transform standard compressed air in to a safe regulated supply of 99.9995% pure nitrogen.

With an optional catalyst, other trace impurities such as hydrocarbons and CO are removed to levels < 0.05 ppm. An additional filter is installed to remove particulates down to 0.5 microns.

The touch screen LCD interface provides simple and user friendly management of all functions on the unit.

Application :

- GC-Make up • GC-Carrier gas
- GC-ECD
- TOC • DSC



BENEFITS AND 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

- Innovation and unique design: space saving lab bench
- Fully regenerative PSA technology: reduced risk of gas contamination and phthalate free
- Generates Nitrogen on demand from external compressed air
- Designed to run 24 hours a day
- The T.ZN2.HP series is equipped with a Catalyst oven to remove Hydrocarbons (as methane)
- Minimum maintenance with an annual filter change: no need to open the instrument
- Alarms for catalyst duration, catalyst temperature, and pressure
- USB/RS232 ports to remote the system anywhere in the world for diagnostics purpose
- Low power, low noise, low maintenance
- Fast purity (10 ppm in less than 3 hours)

Models	T.N2.HP.500	T.ZN2.HP.500	T.N2.HP.750	T.ZN2.HP.750
N2 outlet				
Flow rate (max)	500 cc/min		750 cc/min	
Nitrogen purity	> 99.9995% (< 5 ppm O2 @ 7 bar (101.5 psi) inlet pressure)			
O2 content	< 5 ppm			
N2 pressure	6 bar (87 psi)			
Hydrocarbon content (CH4 free)	-	< 0.05 ppm	-	< 0.05 ppm
Air Inlet				
Air inlet requirement	Particulate : < 1 micron			
	Dewpoint : Between -20°C (-4°F) -40°C (-40°F)			
	Oil < 0.01 mg/m ³			
Flow rate (max)	15 L/min		18 L/min	
Min supply pressure	7 bar (101.5 psi)			
Max supply pressure	10 bar (145 psi)			
Min temperature	1°C (34°F)			
Max temperature	35°C (95°F)			
Communication				
LCD display	Touch screen (operating parameters, system status, alarms) with LED indicators (Power on /off; ready or errors)			
RS232/RS485	Option			
USB/PC control monitoring	In series			
General Data				
Supply rating	110 - 120 V 60 Hz / 220 - 240 V 50 Hz			
Installation power (max)	20 W - 270 W with ZN2			
Dimensions (W x H x D)	14 x 49 x 63 cm (5.5" x 19" x 25")			
Certification	CE, CSA, FCC			
Connections				
Outlet port	1/8" GF female			
Inlet port	1/8" GF female			
Operating conditions				
Temperature	5 - 35°C (41 - 95°F)			
Humidity (max, non condensing)	80% at 25°C (77°F)			
Noise	< 25 dB(A)			
IP rating	IP20			
Pollution degree rating	2 (with no aromatic compounds)			

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