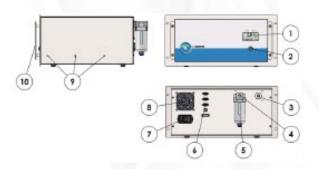


## **N2 Generator RACK**

« RACK.N2.600.HP.D | RACK.ZN2.600.HP.D RACK.N2.1000.HP.D »

The F-DGSi High Purity (HP) Nitrogen Generators are engineered to transform standard compressed air in to a safe regulated supply of 99.9995% pure nitrogen. Typical applications include GC make up gas and carrier gas, including ECD (Electron Capture Detector), solvent evaporation, DSC (Differential Scanning Calorimeter) and virtually any analytical instrument that requires a small flow of ultra high purity nitrogen.





- 1 Display LCD touch-screen
- 2 START/STOP button
- 3 Air compress inlet
- 4 Nitrogen outlet
- 5 Filter
- 6 I/O ports: RS485-RS232-USB-Digital I/O
- 7 Power supply switch
- 8 Fan
- 9 Predispositions for sliding rail
- 10 Front handles

## Main applications

- Produces a supply of high purity Nitrogen 99.9995% for GC application
- TOC applications including combustion, UV persulfate and wet oxidation sampling techniques
- make-up and carrier gas applications including ECD

## Main advantages

- Generates Nitrogen on demand from external compressed air
- Designed to run 24 hours a day
- Eliminates dangerous Nitrogen cylinders from the laboratory
- The ZN2 series is equipped with a Catalyst oven to remove Hydrocarbons (as methane)
- Smart control of the flow of inlet air, it is function of the real flow of nitrogen used by the application
- Minimum maintenance with an annual filter change
- USB/RS232 ports to remote the system anywhere in the world
- Low power, low noise, low maintenance
- Ultra fast start-up time
- Fast purity (10 ppm in less than 3 hours)





N2 outlet   Flow rate (max)	Models	N2.600.HP.D	ZN2.600.HP.D	N2.1000.HP.D		
Outlet pressure (min)         1 bar (14 psl)           Outlet pressure (max)         Inlet pressure -2 bar (-29 psl)           Nitrogen purity         > 99.9995% (< 5ppm O2 @ 7 Bar (101 psl) inlet pressure)           Oz content         -         < 5 ppm         -           Hydrocarbon content (CH4 free)         -         < 0.05 ppm         -           Air Inlet         Particulate : < 1 micron           Dewpoint : - 40°C (-40°F)         Oil < 0.01 mg/m3           Flow rate (max)         12 l/min         15 l/min           Min supply pressure         7 bar (101 psl)         15 l/min           Max supply pressure         7 bar (101 psl)         15 l/min           Max supply pressure         7 bar (101 psl)         15 l/min           Max supply pressure         7 bar (101 psl)         15 l/min           Max supply pressure         7 bar (101 psl)         15 l/min           Max supply pressure         7 bar (101 psl)         15 l/min           Max supply pressure         7 bar (101 psl)         15 l/min           Max supply pressure         7 bar (101 psl)         15 l/min           Max supply pressure         7 bar (101 psl)         15 l/min           LOD with houch screen         Yes         Yes         Yes           R	N2 outlet					
Nitrogen purity	Flow rate (max)	600 cc/min		1000 cc/min		
Nitrogen purity	Outlet pressure (min)	1 bar (14 psi)				
O2 content	Outlet pressure (max)	Inlet pressure -2 bar (-29 psi)				
Hydrocarbon content (CH4 free)   -     < 0.05 ppm   -	Nitrogen purity	> 99.9995% (< 5ppm O2 @ 7 Bar (101 psi) inlet pressure)				
Air inlet  Air inlet requirement  Air inlet requirement  Dewpoint: -40°C (-40°F)  Oil < 0.01 mg/m3  Flow rate (max)  I 2 l/min  Min supply pressure  7 bar (101 psi)  Max supply pressure  10 bar (145 psi)  Min temperature  1°C (34°F)  Max temperature  35°C (95°F)  Communication  LCD with touch screen  Yes  RS232  X  RS485  X  USB  X  General Data  Supply rating  100 - 240 V ac / 50 - 60 Hz - 2 A  Connection type  Ilec320-C13  Installation power (max)  Fuse rating  4 A - 240 V ac (5 x 20 mm)  Net weight (kg/lbs)  - 25 ( 55  Dimensions  Standard 19° Rack 5U - deep 48 cm  Connections  Outlet port  1/4" female  Inlet port  Hurtidity (max, non condensing)  Fuse rating  80% at 25°C (77°F)  Noise  - 25 dB(A)  IlP rating  Pollution degree rating  2 (with no aromatic compounds)	O2 content	-	< 5 ppm	-		
Particulate : < 1 micron	Hydrocarbon content (CH4 free)	-	< 0.05 ppm	-		
Air inlet requirement    Dewpoint : - 40°C (-40°F)	Air Inlet					
Oii < 0.01 mg/m3			Particulate : < 1 micron			
Flow rate (max)	Air inlet requirement	Dewpoint : - 40°C (-40°F)				
Min supply pressure         7 bar (101 psi)           Max supply pressure         10 bar (145 psi)           Min temperature         1°C (34°F)           Max temperature         35°C (95°F)           Communication         Yes         Yes           LCD with touch screen         Yes         Yes           RS232         X         X           RS485         X         X           USB         X         X           General Data         100 - 240 V ac / 50 - 60 Hz - 2 A           Connection type         IEC320-C13           Installation power (max)         240 W (280 VA)           Fuse rating         4 A - 240 V ac (5 x 20 mm)           Net weight (kg/lbs)         < 25 / < 55		Oil < 0.01 mg/m3				
Max supply pressure         10 bar (145 psi)           Min temperature         1°C (34°F)           Max temperature         35°C (95°F)           Communication         Yes         Yes           LCD with touch screen         Yes         Yes           RS232         X         X           RS485         X         X           General Data         X         Supply rating         100 - 240 V ac / 50 - 60 Hz - 2 A           Connection type         IEC320-C13         Installation power (max)         240 W (280 VA)           Fuse rating         4 A - 240 V ac (5 x 20 mm)         Yes           Net weight (kg/lbs)         < 25 / < 55	Flow rate (max)	12 l/min		15 l/min		
Min temperature         1°C (34°F)           Max temperature         35°C (95°F)           Communication           LCD with touch screen         Yes         Yes         Yes           RS232         X         X         USB         X           USB         X         USB         X         USB         X           General Data           Supply rating         100 - 240 V ac / 50 - 60 Hz - 2 A         IEC320-C13         IEC320-C13         IEC320-C13         Installation power (max)         240 W (280 VA)         4 A - 240 V ac (5 x 20 mm)         Yes	Min supply pressure	7 bar (101 psi)				
Max temperature         35°C (95°F)           Communication         Yes         Yes         Yes           RS232         X         RS485         X           USB         X         USB         X           General Data           Supply rating         100 - 240 V ac / 50 - 60 Hz - 2 A           Connection type         IEC320-C13           Installation power (max)         240 W (280 VA)           Fuse rating         4 A - 240 V ac (5 x 20 mm)           Net weight (kg/lbs)         < 25 / < 55	Max supply pressure	10 bar (145 psi)				
Communication   Yes   Yes   Yes   Yes   Yes   RS232   X   X   X   X   X   X   X   X   X	Min temperature					
CDD with touch screen   Yes   Yes   Yes   Yes	Max temperature	35°C (95°F)				
RS232	Communication					
RS485	LCD with touch screen	Yes	Yes	Yes		
USB	RS232	X				
Supply rating 100 - 240 V ac / 50 - 60 Hz - 2 A  Connection type IEC320-C13  Installation power (max) 240 W (280 VA)  Fuse rating 4 A - 240 V ac (5 x 20 mm)  Net weight (kg/lbs) < 25 / < 55  Dimensions Standard 19" Rack 5U - deep 48 cm  Connections  Outlet port 1/4" female  Inlet port 1/4" 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)	RS485	X				
Supply rating  Connection type  IEC320-C13  Installation power (max)  Fuse rating  A A - 240 V ac (5 x 20 mm)  Net weight (kg/lbs)  Dimensions  Standard 19" Rack 5U – deep 48 cm  Connections  Outlet port  Inlet port  Inlet port  Inlet port  Operating conditions  Temperature  5 - 35°C (41 - 95°F)  Humidity (max, non condensing)  Noise  Connections  1P20  Pollution degree rating  2 (with no aromatic compounds)	USB	X				
Connection type	General Data	eneral Data				
Installation power (max)  Fuse rating  4 A - 240 V ac (5 x 20 mm)  Net weight (kg/lbs)  25 / < 55  Dimensions  Standard 19" Rack 5U – deep 48 cm  Connections  Outlet port  Inlet port  Inlet port  Inlet port  Temperature  5 - 35°C (41 - 95°F)  Humidity (max, non condensing)  Noise  25 dB(A)  IP rating  Pollution degree rating  2 (with no aromatic compounds)	Supply rating	100 - 240 V ac / 50 - 60 Hz – 2 A				
Fuse rating  A A - 240 V ac (5 x 20 mm)  Net weight (kg/lbs)  < 25 / < 55  Dimensions  Standard 19" Rack 5U – deep 48 cm  Connections  Outlet port  1/4" female  Inlet port  1/4" 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  Pollution degree rating  2 (with no aromatic compounds)	Connection type	IEC320-C13				
Net weight (kg/lbs)  Standard 19" Rack 5U – deep 48 cm  Connections  Outlet port  Il/4" female  Inlet port  Operating conditions  Temperature  5 - 35°C (41 - 95°F)  Humidity (max, non condensing)  Noise  < 25 dB(A)  IP rating  Pollution degree rating  2 (with no aromatic compounds)	Installation power (max)	240 W (280 VA)				
Dimensions  Standard 19" Rack 5U – deep 48 cm  Connections  Outlet port  Inlet port  Inlet port  Temperature  Temperature  Noise  425 dB(A)  IP rating  Pollution degree rating  Standard 19" Rack 5U – deep 48 cm  Standard 19" Rack 5U – deep 48 cm  1/4" female  1/4" female  5 - 35°C (41 - 95°F)  80% at 25°C (77°F)  425 dB(A)  IP 20  Pollution degree rating  2 (with no aromatic compounds)	Fuse rating	4 A - 240 V ac (5 x 20 mm)				
Connections  Outlet port Inlet port Inlet port Operating conditions  Temperature 5 - 35°C (41 - 95°F) Humidity (max, non condensing) Noise Vertically (125°C (77°F) Voise Vertically (125°	Net weight (kg/lbs)	< 25 / < 55				
Outlet port  Inlet port  Inlet port  Operating conditions  Temperature  5 - 35°C (41 - 95°F)  Humidity (max, non condensing)  Noise  < 25 dB(A)  IP rating  Pollution degree rating  1/4" female	Dimensions	Standard 19" Rack 5U – deep 48 cm				
Inlet port  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)	Connections					
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)	Outlet port	1/4" female				
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)	Inlet port	1/4" female				
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)	Operating conditions					
Noise < 25 dB(A)  IP rating IP20  Pollution degree rating 2 (with no aromatic compounds)	Temperature	5 - 35°C (41 - 95°F)				
IP rating IP20 Pollution degree rating 2 (with no aromatic compounds)	Humidity (max, non condensing)	80% at 25°C (77°F)				
Pollution degree rating 2 (with no aromatic compounds)	Noise	< 25 dB(A)				
Pollution degree rating 2 (with no aromatic compounds)	IP rating	IP20				
	Pollution degree rating	2 (with no aromatic compounds)				
		< 2000 m				

F-DGSI

8, 10 rue du Bois Sauvage, bat Q18 - 91000 Evry France

Tel.: +33(0)1 64 98 21 00 Fax.: +33(0)1 64 98 00 43 Email: info@f-dgs.com Web: www.f-dgs.com

