



R Evolution
in Gas Generators
and Calibrators



LNI Swissgas

LNI Swissgas is a genuine multinational reference in manufacturing premium gas generators, gas mixers, gas calibrators and lab benches for analytical, industrial, laser and environmental applications: more than thirty years of know-how, 100% in-house production, continuous improvement and a unique R&D at the forefront of the market in order to always offer the best innovative solutions that anticipate and meet the most specific needs of the customers.

LNI Swissgas is a multinational corporation growing very fast: we now have sales and service offices located on 5 continents, as well as many distributors and 3 production facilities in Europe.



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PREMIUM GAS GENERATORS AND CALIBRATION SYSTEMS FOR LABORATORY APPLICATION

Our gas generators are produced in Torreglia, Italy, while our gas calibration systems are produced in Versoix, Switzerland. LNI's premium products are the result of the Swiss passion for perfection and Italian ingenuity and design.

Our products are completely designed and manufactured inhouse guaranteeing the complete control over the product and allowing the development of exclusive and dedicated technological features for all OEM instruments. Our cutting edge technology and rigorous adherence to standards ensures our customers receive premium quality products to support their demanding analytical applications.

LNI Swissgas is ISO 9001 certified. To insure the highest quality, LNI Swissgas has got ISO 17025 accreditation of its Gas Flow Standard laboratory. ISO 14001-2015 certification moreover highlights LNI's commitment to safeguarding the environment.

GREEN GENERATORS AND CALIBRATORS

While on-site gas generation is a sustainable alternative to traditional gas supplies, our industry in itself remains resource intensive. That is why we have committed to the sustainable sourcing of resources, eco-efficient production, and technological innovation to lead the way insustainability.

On-site gas generation reduces carbon emissions by using renewable sources, such as water and air, to produce pure gases onsite eliminating the need for gas deliveries.

Our products also utilize technology that enables on-demand gas generation and standby functions, eliminating gas waste. The remote diagnostics capability on our products helps us to support our customers quickly while avoiding travel, whenever possible, and the environmental impact it imposes on our planet.



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Hydrogen Generators

LNI Swissgas hydrogen generators are able to produce a pure hydrogen for your laboratory needs. They are a convenient and safe alternative to high pressure gas cylinders. The high performance of those generators make them the solution for laboratory applications.

SAFETY:

- Equipped with a new long life multilayer electrolytic cell with polymeric membrane (PEM) using distilled water, no acid or alkaline solutions.
- On-board CPU for an automatic check of internal leaks and operating parameters.

GREEN AND CONVENIENCE:

- On demand hydrogen production
- Energy efficient generators
- Remote maintenance

PERFORMANCE:

- Flow-rates from 100 cc/min to 4000 cc/min and pressure up to 16 bar, with very high purity up to 99.99999%
- Exclusive and patented solutions (e.g. electronic GLS).
- Up to 20 units can be connected in parallel mode using an external control box for the highest flow requirements.
- Silent



HG PRO 4000

Application:

Gas Chromatography

(Carrier Gas)

Chemical Vapor Deposition

(CVD)

H₂NA

Premium gas generator developed for labs requiring hydrogen gas to support their GC instruments and for CVD applications. Up to 4000 cc/min of Hydrogen with purity better than 99.99999%.

Unique

- Maintenance-free dryer
- Remote access capability for expert diagnosis
- Space-saving
- Mobile



General technical data

HG PRO 400	4000	4000 LN
Gas type	H ₂	
Gas Flow (cc/min)	4000	
Purity	>99.99999%*1 Dew-point -75°C	>99.99999%*1 Dew-point -80 °C
Outlet pressure	12 bar (174 psi) / 16 bar (232 psi) (optional)	
H₂ flow-rate cc/min (Max)	4000	
Power supply voltage	240 Vac (±10%) 50/60 Hz	
Installed power (Max)	1450 W	
Noise	<50dB(A)	
Dimensions	44.5 x 66 x 61.5 cm	



Hydrogen sensors are available in case of worries with Hydrogen Gas.

HG BASIC

Application:
Gas Chromatography
 (Fuel Gas)

H₂NA

HG BASIC is a PEM generator able to generate up to 700 cc/min of Hydrogen with purity better than 99.9999% and pressure up to 10 bar (145 psi).

Unique

- *New small modular design*
- *User-friendly interface*
- *Continuous operation, 24 hours a day- Low maintenance*
- *Remote control for intelligent maintenance*
- *Stackable*



General technical data

HG BASIC	120	180	260	350	500	700
Gas type	H ₂					
Gas Flow (cc/min)	120	180	260	350	500	700
Purity	>99,9999% (referred to O ₂ , dew point <-20°C)					
Outlet pressure	10 bar (145 psi)					
Power supply voltage	100-240 Vac 50/60 Hz					
Installed power (Max)	320W-640 W					
Noise	<25dB(A)					
Dimensions	27 x 44 x 41(H) cm					



Hydrogen sensors are available in case of worries with Hydrogen Gas.

HG PRO

Application:
**Inductively Coupled
 Plasma** (Collision Gas),
Gas Chromatography (Carrier Gas)

H₂NA

HG PRO series are the best on the market for the highest purity needs, with PEM system, they offer important advantages in terms of analysis speed, sensitivity and resolution. Up to 1500 cc/min of Hydrogen with purity better than 99.99999%.

Unique

- New small modular design
- User-friendly interface
- Continuous operation, 24 hours a day- Low maintenance
- Remote control for intelligent maintenance
- Stackable



General technical data

HG PRO	120	180	260	350	500	700	900	1100	1300	1500
Gas type	H ₂									
Gas Flow (cc/min)	120	180	260	350	500	700	900	1100	1300	1500
Purity	>99,99999% (referred to O ₂ , dew point <-75°C)									
Outlet pressure	12 bar (174 psi) / 16 bar (232 psi) (optional)									
Power supply voltage	100-240 Vac 50/60 Hz									
Installed power (Max)	320W				640 W			750 W		
Noise	<25dB(A)									
Dimensions	27 x 44 x 41(H) cm									



HG KUBE

Application:
Gas Chromatography (Fuel Gas)

H₂NA

The HG KUBE is a PEM generator able to generate up to 260 cc/min of Hydrogen with purity better than 99.9996% and pressure up to 9 bar (130 psi).

Unique

- New small modular design
- User-friendly interface
- Continuous operation, 24 hours a day- Low maintenance
- Remote control for intelligent maintenance
- Stackable
- Economical



General technical data

HG KUBE	120	260
Gas type	H ₂	
Gas Flow (cc/min)	120	260
Purity	>99.9996%	
Outlet pressure	9 bar (130 psi)	
Power supply voltage	100-240 Vac 50/60 Hz	
Installed power (Max)	160 W	
Noise	<25dB(A)	
Dimensions	25 x 30 x 35(H) cm	



Hydrogen sensors are available in case of worries with Hydrogen Gas.

HG ST BASIC

Application:
Gas Chromatography (Fuel Gas)

H₂NA

HG ST BASIC is a PEM generator able to generate up to 600 cc/min of Hydrogen with purity better than 99.9999% and pressure up to 10 bar (145 psi). So small it fits perfectly in laboratories and side by side with GC.

Unique

- The smallest gas generator on the market!
- User-friendly interface
- Continuous operation, 24 hours a day - Low maintenance
- Remote control for intelligent maintenance



General technical data

HG ST BASIC	120	160	250	350	600
Gas type	H ₂				
Gas Flow (cc/min)	120	160	250	350	600
Purity	>99,9999% (referred to O ₂ , dew point <-20°C)				
Outlet pressure	10 bar (145 psi)				
Power supply voltage	100-240 Vac 50/60 Hz				
Installed power (Max)	350W-500 W				
Noise	<25dB(A)				
Dimensions	9.5 x 44 x 48(H) cm				



HG ST PRO

Application:
Gas Chromatography (Carrier Gas)

H₂NA

The HydroGen series HG ST PRO is able to generate up to 600 cc/min Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 psi). So small it fits perfectly in laboratories and side by side with GC.

Unique

- The smallest gas generator on the market!
- User-friendly interface
- Continuous operation, 24 hours a day - Low maintenance
- Remote control for intelligent maintenance



General technical data

HG ST PRO	100	160	250	350	600
Gas type	H ₂				
Gas Flow (cc/min)	100	160	250	350	600
Purity	>99,99999% (referred to O ₂ , dew point <-75°C)				
Outlet pressure	12 bar (174 psi) / 16 bar (232 psi) (optional)				
Power supply voltage	100-240 Vac 50/60 Hz				
Installed power (Max)	350W-500 W				
Noise	<25dB(A)				
Dimensions	9.5 x 44 x 48(H) cm				



Hydrogen sensors are available in case of worries with Hydrogen Gas.

Nitrogen Generators

LNI Swissgas nitrogen generators are an economical and safe alternative to high pressure gas cylinders in laboratories. The high performance of those generators make them the solution for laboratory applications providing high purity nitrogen from compressed air in a constant way avoiding any supply-break of gas from cylinders.

SAFETY:

- Nitrogen production at controlled low pressures.
- Reliable and safe air compression technology by PSA or Membrane that fit in laboratories.

GREEN AND CONVENIENCE:

- On demand Nitrogen production
- Energy efficient generators
- Remote maintenance
- Designed to postpone first preventive maintenance

PERFORMANCE:

- High flow rates and high purity of N₂
- Exclusive and patented solutions (integrated Scroll compressor, electronic pressure control inside brackets).
- Silent Oil-free air compressor integrated: The quietest models available.
- Simple installation



NG EOLO

Application:
Gas Chromatography
 (Fuel Gas, Make-up Gas)

H₂A

The Ultra High Purity Nitrogen generator NG EOLO removes oxygen from air to less than 10 ppm and HC pollutants to less than 0.1ppm.

Unique

- *New small modular design*
- *User-friendly interface*
- *Continuous operation, 24 hours a day- No maintenance*
- *Remote control for intelligent maintenance*
- *Stackable*



General technical data

NG EOLO	500	750	1300	4000
Gas type	N2			
Flow rate (Max)	500 ml/min	750 ml/min	1300 ml/min	4000 ml/min
Outlet pressure (Max)	2 bar loss from air inlet pressure (max 10 bar)			
Nitrogen Purity *1	> 99.9999%	> 99.9999%	> 99.95%	> 99.0%
Supply rating	100-240Vac 50/60Hz			
Installation power (max)	240W (280VA)			
Noise	< 25dB(A)			
Dimensions	27 x 48 x 28(H) cm			



NG EOLO XL

Application:

Gas Chromatography (Make-up Gas)

Inductively Coupled Plasm

(Alternative Gas to Argon)

H₂A

Ideal where ultra high purity is needed, the Pressure Swing Adsorption (PSA) UHP NG EOLO XL removes oxygen, some hydrocarbons, moisture and carbon dioxide to less than 0.1ppm.

Unique

- User-friendly interface
- Electronic flow control
- Continuous operation, 24 hours a day - Low maintenance
- Remote control for intelligent maintenance



General technical data

NG EOLO XL	5	10	16	18	with integrated catalyst		
					Z-5	Z-10	Z-18
Gas type	N ₂						
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)	2 bar loss from air inlet pressure						
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
Supply rating	100-240Vac 50/60Hz						
Installation power (max)	240W						
Noise	< 25dB(A)						
Dimensions	35 x 34 x 120(H) cm						

*1 The purity refers to the residual oxygen

*2 With an external tank >50l; Inlet pressure >9bar
Needs an external source of dry and clean Air



NG CASTORE DT

Application:
Liquid Chromatography
 (LC; LC-MS)
Sample Evaporation

H₂A

The NG CASTORE DT range of Nitrogen generators has been engineered to provide nitrogen to laboratories that utilize an external source of compressed air.

Unique

- User-friendly interface
- No electrical parts – Low maintenance
- Remote access capability for expert diagnosis
- Small, space-saving



General technical data

NG CASTORE DT	10	35
Gas type	N ₂	
Flow Rate (max)	10 l/min	35 l/min
Outlet pressure (Max)	Inlet pressure – 0.5bar (7.2 psi)	
Nitrogen purity	> 96% @ 10 l/min > 98% @ 5 l/min	> 95% @ 35 l/min > 98% @ 15 l/min
Inlet Pressure > 8 bar (116 psi)	> 99.5% @ 3 l/min	> 99.5% @ 9 l/min
Power supply voltage	100-240Vac (±10%) 47..63 Hz – 1A	
Nominal power (Max)	25W (30VA)	
Noise	<35dB(A)	
Dimensions	36 x 65 *2 x 15 cm	



NG CASTORE BASIC

Application:

Liquid Chromatography (LC; LC-MS)

Sample Evaporation

H₂A

The NitroGen series NG CASTORE BASIC are Membrane Nitrogen Generators pneumatically controlled. They are engineered to transform standard compressed air into a safe, regulated supply of Nitrogen with a purity up to 99.5%.

Unique

- *User-friendly interface*
- *No electrical parts – Low maintenance*
- *Remote control for intelligent maintenance*
- *Ultra silent*



General technical data

NG CASTORE BASIC	10/25/25-40/45/45-40/60	150/180/200	350
Gas type	N ₂		
Flow rate (Max)	10 l/min, 25 l/min, 45 l/min 60 l/min, according to models	150 l/min, 180 l/min, 200 l/min according to models	350l/min
Outlet pressure (Max)	1 bar loss from air inlet pressure	0.5 bar loss from air inlet pressure @150L/min - 0.7 bar loss from air inlet pressure @180&200L/min	1 bar loss from air inlet pressure
Nitrogen Purity *1	LCMS grade, 98.5% to 99.5% according to flow	LCMS grade, 97.5% to 99% according to flow	LCMS grade up to 96%
Supply rating	100-115 Vac 50/60Hz or 220-240Vac 50/60Hz		
Installation power (max)	25W		
Dimensions	35 x 28 x 120(H) cm	35 x 34 x 120(H) cm	35 x 34 x 145(H) cm



Needs an external source of dry and clean Air

NG CASTORE PRO

Application:

Liquid Chromatography (LC; LC-MS)

Sample Evaporation

H₂A

The NitroGen series NG CASTORE PRO are Membrane Nitrogen Generators electronically controlled. They are engineered to transform standard compressed air into a safe, regulated supply of Nitrogen with a purity up to 99.5%.

Unique

- User-friendly interface
- Exclusive electronic flow control- Low maintenance
- Remote control for intelligent maintenance
- Ultra silent



General technical data

NG CASTORE PRO	10/25/25-40/45/45-40/60	120	HP
Gas type	N ₂		
Flow rate (Max)	10 l/min, 25 l/min, 45 l/min 60 l/min, according to models	120 l/min	4l/min, 8l/min according to models
Outlet pressure (Min; Max)	1.0 bar loss from air inlet pressure (2.0 bar)	1.5 bar loss from air pressure (2.0 bar)	1.0 bar loss from air pressure (2.0 bar)
Nitrogen Purity *1	LCMS grade, 98.5 to 99.5% according to flow	LCMS grade, 98.5 %	LCMS grade up to 99.5%
Supply rating	100-115 Vac 50/60Hz or 220-240Vac 50/60Hz		
Installation power (max)	25W		
Noise	< 35dB(A)		
Dimensions	28 x 32 x 120(H) cm	35 x 32 x 120(H) cm	28 x 32 x 120(H) cm

Needs an external source of dry and clean Air



NG CASTORE XS iQ

Application:

Liquid Chromatography (LC; LC-MS)

H₂A

Membrane Technology based Nitrogen generator equipped with a scroll compressor and a patent pending Nitrogen flow control to the application, the NG CASTORE XS iQ series transforms standard compressed air into a safe, regulated supply of Nitrogen up to 36 L/min with a purity up to 99.9%. Designed to meet or exceed the specific gas requirements of all Shimadzu instruments.

Unique

- Compact modular design
- User-friendly interface
- Patent pending control to regulate N₂ flow
- Energy and maintenance savings
- Remote control for intelligent maintenance
- iQ Intelligent Quiet Technology, ultra-quiet



General technical data

NG CASTORE XS iQ	18	24	36
Gas type	N ₂		
Flow rate (Max)	18 l/min	24 l/min	36 l/min
Nitrogen purity	LCMS grade (up to 99.9%*1)		
Outlet pressure (Max)	8 bar (115 psi)		
Power supply voltage	200-240 115-240 Vac 47..63 Hz (full range power supply voltage models)		
Rated power (peak)	1.2/1.3 kW	1.3/1.4 kW	1.5/1.8 - kW (3.5kW)
Noise level	<48dB	<50dB	
Dimensions	51 x 85 x 73 (H) cm		



*1 The purity refers to the residual oxygen, depends on flow and working pressure

NG CASTORE XL iQ

Application:

Liquid Chromatography (LC; LC-MS)

H₂N₂

Best in class Membrane Nitrogen generator equipped with a scroll compressor and inverter technology, the NG CASTORE XL series transform standard compressed air into a safe, regulated supply of Nitrogen up to 70 L/min with a purity up to 99.8%.

Unique

- Compact modular design
- User-friendly interface
- Scroll compressor
- Electronic flow control for continuous supply of N₂
- Postponed low maintenance
- Remote control for intelligent maintenance
- iQ Intelligent Quiet Technology, ultra silent
- Agilent MP-AES compatible



General technical data

NG CASTORE XL iQ	20	40	70
Gas type	N ₂		
Flow rate (Max)	20 l/min	40 l/min	70 l/min
Nitrogen purity	LCMS grade (up to 99.8%*1)		
Outlet pressure (Max)	9 - 10 bar (140 -145 psi)		
Power supply voltage	100-250 Vac 47..63 Hz (full range power supply voltage models)		
Rated power (peak)	1,2 kW	1,8 kW	2.2 kW (3.5kW)
Noise level	<45dB		<50dB
Dimensions	59 x 92 x 73 (H) cm		



*1 The purity refers to the residual oxygen, depends on flow and working pressure

NG SIRIO

Application:

Gas Chromatography

(Fuel Gas, Make-up Gas)

Total Organic Carbon Analyzer

HNA²

The NG SIRIO series produce ultra high purity grade nitrogen for most of the laboratory applications and equipment. The NG SIRIO removes oxygen from air to less than 5ppm.

Unique

- User-friendly interface
- Long life pistons Oil free built-in compressor- Low maintenance
- Remote control for intelligent maintenance
- Ultra silent



General technical data

NG SIRIO	1500	3000	5000	5000 HP	8000
Gas type	N ₂				
Flow rate (Max)	1500 cc/min	3000 cc/min	5000 cc/min	5000 cc/min	16l/min 8000 cc/min
Outlet pressure (Max)	5.5 bar (79.7 psi)			8 bar (116 psi)	6 bar (87 psi)
Nitrogen purity	>99.9999%	>99.9999%	>99.99%	>99.9999%	>98% >99.7%
Supply rating	100-115 Vac 50/60Hz or 220-240Vac 50/60Hz				
Installation power (Max)	1000W				
Noise	<58 dB(A)				
Dimensions	43 x 70 x 63(H) cm				



ZeroAir Generators

LNI Swissgas has developed a complete family of Air Generator necessary in laboratory applications where the highest purity is requested.

HNA_{ir}

GREEN AND CONVENIENCE:

- On demand Zero Air production
- Energy efficient generators
- Remote control for intelligent maintenance
- Easy use and quick installation

PERFORMANCE:

- Stability and precision in analytical results:
The filtration of the hydrocarbons is performed by using a catalytic oven filled with palladium.
- High efficiency coalescing pre-filtration and post filtration of particulate size greater than 0.01 microns are used to prevent any kind of particles from entering the analytical device
- Silent



ZA FID AIR

Application:
Gas Chromatography
 (Combustion Gas)

HNA_{ir}

Ideal to supply Hydrocarbon free Air to FID detectors in GC, the ZA FID Air can purify up to 30 L/min of compressed Air and can bear a pressure up to 7 bar (101 psi).

Unique

- New small modular design
- User-friendly interface
- Low maintenance
- Stackable with HG Basic or PRO and NG Eolo series



General technical data

ZA FID AIR	1.5	3.0	6.0	15.0	30.0
Gas type	Zero Air				
Flow rate (L/min)	1.5	3.0	6.0	15.0	30.0
Inlet pressure	7 bar (101 psi)				
Outlet pressure	7 bar				
Power supply voltage	100-240 Vac 50/60 Hz				
Installed power (Max)	240W (280VA)				
Noise	<25dB(A)				
Dimensions	44 x 27 x 14(H) cm				



ZA TOTAL C

Application:
Gas Chromatography
(Combustion Gas)

HNA_{ir}

Ideal to supply Hydrocarbon free Air to FID detectors in GC, the ZA TOTAL C is equipped with a internal compressor 100% oil-free and can bear a pressure up to 6 bar (87 psi).

Unique

- *Reduced footprint*
- *Easy use and quick installation*
- *Low maintenance*



General technical data

ZA FID AIR C	1.5	3.0	6.0
Gas type	Zero Air		
Flow rate (L/min)	1.5	3.0	6.0
Total hydrocarbon content	< 0.05ppm		
Outlet pressure	6 bar (87 psi)		
Power supply voltage	100-240 Vac 50/60 Hz		
Installed power (Max)	1000W		
Noise	<52 dB(A)		
Dimensions	43 x 75 x 66(H) cm		



ZA TOTAL AIR

Application:

Gas Chromatography

(Combustion Gas)

Total Organic Carbon Analyzer

HNA_{ir}

The ZA TOTAL Air series can purify up to 30 L/min of compressed Air and can bear a pressure up to 8 bar (115 psi). Without compressor, it is able to remove the total hydrocarbons to less than 0.05 ppm

Unique

- New small modular design
- User-friendly interface
- Low maintenance
- Stackable with HG Basic or PRO and NG Eolo series



General technical data

ZA TOTAL AIR	1.500	3.000	6.000	15.000	30.000
Gas type	Zero Air				
Flow rate (L/min)	1.5 l/min	3.0 l/min	6.0 l/min	15.0 l/min	30.0 l/min
Outlet pressure	8 bar (115 psi)				
Power supply voltage	100-240 Vac 50/60 Hz				
Installed power (Max)	240W (280VA)				
Noise	< 25dB(A)				
Dimensions	27(W)x44(D)x28/41(H) cm				

*ZA TOTAL C available with compressor



Combined Generators

LNI Swissgas has developed a large range of combined generators: hydrogen + Air generators and Nitrogen + Air generators to meet the most specific laboratory air requirement.

GREEN AND CONVENIENCE:

- On demand gas production
- Energy efficient generators
- Remote control for intelligent maintenance
- Easy use and quick installation

PERFORMANCE:

- High flow and high purity
- Stability and precision in analytical results:
The filtration of the hydrocarbons is performed by using a catalytic oven filled with palladium.
- High efficiency coalescing pre-filtration and post filtration of particulate size greater than 0.01 microns are used to prevent any kind of particles from entering the analytical device.
- Silent



HGA ST BASIC

Application:

Gas Chromatography

(Combined Fuel and Combustion gas)

H₂A_{ir}

The HGA ST BASIC series are PEM Hydrogen generator with ZeroAir integrated. They are able to generate up to 600 cc/min of Hydrogen with purity better than 99.9999% and pressure up to 10 bar (145 psi) and 2,0 L/min of Zero Air with 0.05 ppm HC.

Unique

- The smallest gas generator on the market!
- User-friendly interface
- Continuous operation, 24 hours a day - No maintenance
- Remote control for intelligent maintenance



General technical data

HGA ST BASIC	120	160	250	350	600
H2 Gas Flow (cc/min)	120	160	250	350	600
H2 Purity	>99,9999% (referred to O2, dew point <-25°C)				
H2 Outlet pressure	10 bar (145 psi)				
Zero Air Inlet pressure (Max)	8 bar (116 psi)				
Zero Air Outlet flow rate (Max)	2000 cc/min				
Power supply voltage	100-240 Vac 50/60 Hz				
Installed power (Max)	350W-500 W				
Noise	<25dB(A)				
Dimensions	9.5 x 44 x 48(H) cm				



HGA ST PRO

Application:

Gas Chromatography

(Combined Carrier and Combustion gas)

H₂A_{ir}

The HGA ST PRO series are PEM Hydrogen generator with ZeroAir integrated. They are able to generate up to 600 cc/min of Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 psi) and 2,0 L/min of Zero Air with 0.05 ppm HC.

Unique

- The smallest gas generator on the market!
- User-friendly interface
- Continuous operation, 24 hours a day - No maintenance
- Remote control for intelligent maintenance



General technical data

HGA ST PRO	100	160	250	350	600
H2 Gas Flow (cc/min)	100	160	250	350	600
H2 Purity	99,99999% (referred to O2, dew point <-75°C)				
H2 Outlet pressure	12 bar (174 psi) / 16 bar (232 psi) (optional)				
Zero Air Inlet pressure (Max)	8 bar (116 psi)				
Zero Air Outlet flow rate (Max)	2000 cc/min				
Power supply voltage	100-240 Vac 50/60 Hz				
Installed power (Max)	350W-500 W				
Noise	<25dB(A)				
Dimensions	9.5 x 44 x 48(H) cm				



NGA CASTORE XL iQ

Application:
Liquid Chromatography (LC; LC-MS)

H₂A_{ir}

Membrane Nitrogen and dry Air generator equipped with a scroll built-in oil less compressor with inverter technology, the NGA CASTORE XL series transform standard compressed air into a safe, regulated supply of Nitrogen up to 40 L/min with a purity up to 99.8% and provide up to 60 L/min of compressed, dry and regulated air.

Unique

- Compact modular design
- User-friendly interface
- Scroll compressor
- Electronic flow control for continuous supply of N₂
- Postponed low maintenance
- Remote control for intelligent maintenance
- iQ Intelligent Quiet Technology, ultra silent
- Agilent MP-AES compatible



General technical data



NGA CASTORE XL iQ	20.40	40.40	20.60
N₂ Flow rate (Max)	20 l/min	40 l/min	20 l/min
N₂ Outlet pressure (Max)	9 Bar (130 psi)		
Nitrogen purity	LCMS grade (up to 99.8%*1)		
Dry Air Flow rate (Max)		40 l/min	60 l/min
Dry Air Outlet pressure (Max)	10 Bar		
Power supply voltage	100-250 Vac 47..63 Hz (full range power supply voltage models)		
Rated power (peak)	1,2 KW	1,8 KW	2,2 KW
Noise level	<50 dB		
Dimensions	59 x 92 x 73 (H) cm		

*1 The purity refers to the residual oxygen, depends on flow and working pressure



NGA CASTORE 3G

Application:

Liquid Chromatography (LC; LC-MS)

H₂A_{ir}

The NGA Castore 3G series are membrane Nitrogen and dry Air generators without compressors. They transform standard compressed air into a safe, regulated supply of Nitrogen with a purity up to 99.5% and provide 2 lines up to 25 and 26 L/min of compressed, dry and regulated air.

Unique

- User-friendly interface
- No electrical parts - Low maintenance
- Remote control for intelligent maintenance
- Ultra silent



General technical data

NGA CASTORE 3G	10	25	45	60
N2 Flow rate (Max)	10 l/min	25 l/min	45 l/min	60 l/min
N2 Outlet pressure (Max)	Up to 7.5 bar			
Nitrogen purity	>98.5% @ 10l/min >99.5% @ 5l/min	>98.5% @ 45l/min >99.5% @ 10l/min	>98.5% @ 60l/min >99.5% @ 25l/min	>98.5% @ 25l/min >99.5% @ 45l/min
Air supply pressure (Min; Max)	8 bar; 10 bar			
Supply rating	100-115 Vac 50/60Hz or 220-240Vac 50/60Hz			
Installation power (max)	1000W			
Noise	<25 dB(A)			
Dimensions	43 x 70 x 63(H) cm			



Needs an external source of dry and clean Air

Gas Calibration Systems

Over the time or according regulations and devices requirements, calibration operations are required for each measured compound. LNI Swissgas is a genuine reference in gas calibration systems. A wide range of products and an ISO 17025 accredited laboratory enable LNI Swissgas to meet the specific requirements of manufacturers in various fields. Our sonimix gas mixers are essential tools for calibration and for aligning gas detectors while generating specific gas mixtures. They provide precision, reliability and versatility in the quality control of gas monitors in the laboratory.

DIFFERENTS PRECISION TECHNOLOGIES ACCORDING TO MODELS:

- Sonic Nozzle
- Mass flow Controllers
- Permeation tubes

SWISS QUALITY

FLEXIBILITY:

- Portable Version Available



SONIMIX 2106

Best in class Gas Mixer

The Sonimix 2106 is a gas mixer based on the principle of gas flow through sonic nozzles and is built according the ISO 6145/6 standard. The sonic nozzle principle makes it the most accurate and stable device on the market.

Unique

- *New small modular design*
- *User-friendly LCD interface*
- *Best accuracy - (0.5% rel.)/ stability (0,2% rel.)*
- *Mechanical regulation without any influence from ambient pressure or temperature*
- *Return on investment- Reduces gas cylinders costs, less components*
- *Safe - Smart purge routine*
- *No maintenance*



General technical data

SONIMIX 2106	2106-10	2106-16	2106-64	2106-128	2106-256	2106-1024
Dilution points	10	16	64	128	256	1024
Dilution principle	Sonic nozzles (according ISO 6145-6) and high precision pressure regulators					
Dilution gas line flow accuracy	< 0.25 % of set point					
Accuracy on concentration (rel)	< 0.5 % on the highest dilution ratio					
Repeatability on concentration	Better than 0.14% relative					
Power supply voltage	230V/50-60Hz 115V/60Hz 100V/50-60Hz					
Installed power (Max)	150W					
Dimensions	19" 3HE/84 TE , 500mm deep portable casing in option					



SONIMIX 7100

Gas Mixer

The Sonimix 7100 is based on the principle of gas flow through MFC (Mass Flow Controllers) and is built according the ISO 6145/7 standards.

Unique

- *New small modular design*
- *User-friendly LCD interface*
- *High flexibility allowing to combine multigas mixtures (up to 5 gases + a balance gas) and multi-range functionality*
- *High accuracy - (2% rel.)*
- *Remote control*
- *Purge function*
- *Multiplexer option*



General technical data

SONIMIX 7100	Sx 7100 2L1R	Sx 7100 2L2R	Sx 7100 2L3R	Sx 7100 Multi Gas
Dilution range	10 - 100 %	1 - 100 %	0,1 - 100 %	to be define
Dilution principle	Mass Flow Controllers			
Dilution gas line flow accuracy	0.5 % (rel.) + 0,1 FS			
Accuracy on dilution	0.2% (rel.)			
Power supply voltage	230V/50-60Hz 115V/60Hz 100V/50-60Hz			
Installed power (Max)	65 - 150W			
Dimensions	19" 3HE/84 TE , 500mm deep portable casing in option			



Complete Stackable Solutions

LNI Swissgas offers complete gas solutions, in bench or 19" rack format.

Unique

- Stackable and best Footprint W(27) x D(44) cm
- Lowest total height in the industry
- No external water tank required !

Unique

- Units can work in parallel
- The most compact Modular and scalable system
- Combined H₂ +Zero Air as ONE module available



Complete Bench Solutions

Laboratory benches from LNI help creating a clean, safe, quiet and practical workspace for laboratory customers making installation and service easy. The smart designs are extremely adaptable, and we can tailor bespoke solutions for all types of analytical instruments as well as for all gas generators avoiding space problems during installation.

Unique

- Modular
- Customizable
- Robust



More Applications

LNI Swissgas supplies Gas Generators and Calibration Systems also for other applications than the laboratory one. We are present in all fields where gases and gas mixtures are necessary.

Laser

Protect optics, crystals and coatings of the laser beam path against particles, humidity, hydrocarbons and aggressive gases.



Air Pollution Monitoring

To insure the tracability of measurements or to supervise the good functioning of the analysers.



Industry, emissions and process

To enable our clients to comply with the international standards and regulations, to automatize their process and reduce their production costs.



LNI SwissCare

The premium service you expect.

LNI Swissgas has always been renowned for its Premium Service that will provide our customers with complete peace of mind with preventative maintenance, onsite repair service and many advantages.

By signing up with a SwissCare Service Plan, you will enhance the performance of the equipment you have purchased allowing us to take care of your investment from startup and through the full life cycle of the equipment.

4 Premium Service Plans

Gold SwissCare

Free WiFi module*

Unlimited Phone assistance

Free software & logiciel upgrades

Prescribed consumables

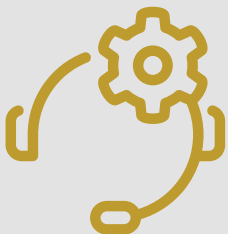
Unlimited repair parts

Free preventive on-site maintenance every 6 months on your gas generator

Unlimited service visits with a 48h response time

Free equivalent unit at disposal

Free standard calibration report and **20 % discount** on ISO 17025 calibration



Silver SwissCare

Free WiFi module*

Unlimited Phone assistance

Free software upgrades

Prescribed consumables

Unlimited repair parts

Free preventive on-site maintenance every 6 months on your gas generator

1 service visit with a 48h response time (working hours) a year



Bronze SwissCare

Free WiFi module*

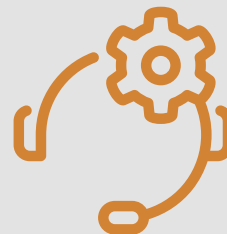
Unlimited Phone assistance

Free software upgrades

Prescribed consumables

Unlimited repair parts

Free remote diagnostics every 6 months



E-contract SwissCare

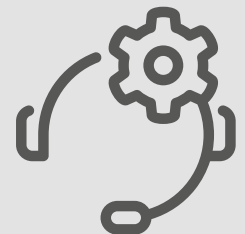
Free WiFi module*

Unlimited Phone assistance

Free software & logiciel upgrades

20% discount on consumables

20% discount on repair parts



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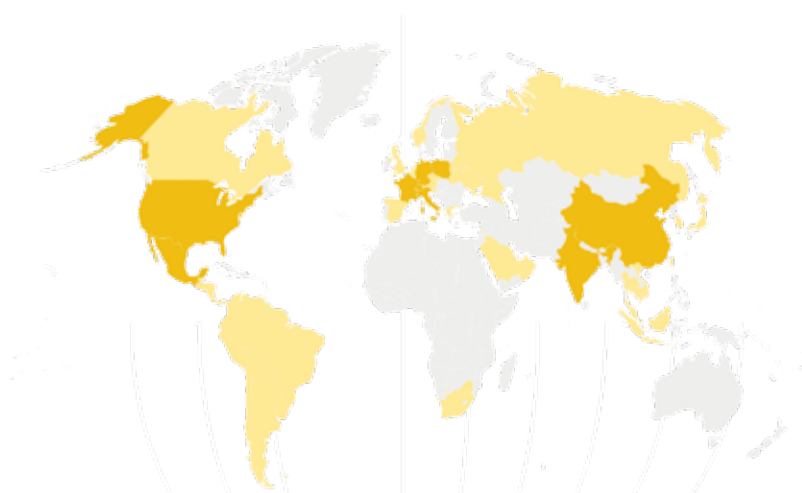
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■ Direct presence





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