



**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)

# H<sub>2</sub>NA

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

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

# H<sub>2</sub>NA

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

# H<sub>2</sub>NA

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





# HG KUBE

Application:  
Gas Chromatography (Fuel Gas)

# H<sub>2</sub>NA

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

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

# H<sub>2</sub>NA

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

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



# HG ST PRO

Application:  
Gas Chromatography (Carrier Gas)

# H<sub>2</sub>NA

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

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



# 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 N<sub>2</sub>
- 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)

# H<sub>2</sub>A

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



# NG EOLO XL

Application:

**Gas Chromatography** (Make-up Gas)

**Inductively Coupled Plasm**

(Alternative Gas to Argon)

# H<sub>2</sub>A

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
<b>Gas type</b>	N <sub>2</sub>						
<b>Flow rate (Max)</b>	5 l/min	10 l/min	16 l/min	18 l/min	5 l/min	10 l/min	18 l/min
<b>Outlet pressure (Max)</b>	2 bar loss from air inlet pressure						
<b>Nitrogen Purity *1</b>	>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
<b>Supply rating</b>	100-240Vac 50/60Hz						
<b>Installation power (max)</b>	240W						
<b>Noise</b>	< 25dB(A)						
<b>Dimensions</b>	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**

# H<sub>2</sub>A

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

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



# NG CASTORE BASIC

**Application:**

**Liquid Chromatography (LC; LC-MS)**

**Sample Evaporation**

# H<sub>2</sub>A

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

<b>NG CASTORE BASIC</b>	10/25/25-40/45/45-40/60	150/180/200	350
<b>Gas type</b>	N <sub>2</sub>		
<b>Flow rate (Max)</b>	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
<b>Outlet pressure (Max)</b>	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
<b>Nitrogen Purity *1</b>	LCMS grade, 98.5% to 99.5% according to flow	LCMS grade, 97.5% to 99% according to flow	LCMS grade up to 96%
<b>Supply rating</b>	100-115 Vac 50/60Hz or 220-240Vac 50/60Hz		
<b>Installation power (max)</b>	25W		
<b>Noise</b>	< 58dB(A)		
<b>Dimensions</b>	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**

# H<sub>2</sub>A

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

<b>NG CASTORE PRO</b>	10/25/25-40/45/45-40/60	120	HP
<b>Gas type</b>	N <sub>2</sub>		
<b>Flow rate (Max)</b>	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
<b>Outlet pressure (Min; Max)</b>	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)
<b>Nitrogen Purity *1</b>	LCMS grade, 98.5 to 99.5% according to flow	LCMS grade, 98.5 %	LCMS grade up to 99.5%
<b>Supply rating</b>	100-115 Vac 50/60Hz or 220-240Vac 50/60Hz		
<b>Installation power (max)</b>	25W		
<b>Noise</b>	< 58dB(A)		
<b>Dimensions</b>	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)**

# H<sub>2</sub>A

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 N<sub>2</sub> 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
<b>Gas type</b>	N <sub>2</sub>		
<b>Flow rate (Max)</b>	18 l/min	24 l/min	36 l/min
<b>Nitrogen purity</b>	LCMS grade (up to 99.9%*1)		
<b>Outlet pressure (Max)</b>	8 (115 psi)		
<b>Power supply voltage</b>	200-240 115-240 Vac 47..63 Hz (full range power supply voltage models)		
<b>Rated power (peak)</b>	1.2/1.3 KW	1.3/1.4 KW	1.5/1.8 - KW (3.5KW)
<b>Noise level</b>	<48dB	<50dB	
<b>Dimensions</b>	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)

# H<sub>2</sub>A

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 N<sub>2</sub>
- 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
<b>Gas type</b>	N <sub>2</sub>		
<b>Flow rate (Max)</b>	20 l/min	40 l/min	70 l/min
<b>Nitrogen purity</b>	LCMS grade (up to 99.8%*1)		
<b>Outlet pressure (Max)</b>	9 - 10 bar (140 -145 psi)		
<b>Power supply voltage</b>	100-250 Vac 47..63 Hz (full range power supply voltage models)		
<b>Rated power (peak)</b>	1,2 KW	1,8 KW	2.2 KW (3.5KW)
<b>Noise level</b>	<45dB		<48dB
<b>Dimensions</b>	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**

# HNA<sup>2</sup>

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

## 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<sub>ir</sub>

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

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



# ZA TOTAL C

**Application:**  
**Gas Chromatography**  
 (Combustion Gas)

# HNA<sub>ir</sub>

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

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



# ZA TOTAL AIR

Application:

**Gas Chromatography**

(Combustion Gas)

**Total Organic Carbon Analyzer**

# HNA<sub>ir</sub>

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

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

# H<sub>2</sub>A<sub>ir</sub>

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)

# H<sub>2</sub>A<sub>ir</sub>

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)

H<sub>2</sub>N<sub>2</sub>A<sub>ir</sub>

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 N<sub>2</sub>
- Postponed low maintenance
- Remote control for intelligent maintenance
- iQ Intelligent Quiet Technology, ultra silent
- Agilent MP-AES compatible



## General technical data

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

H<sub>2</sub>N<sub>2</sub>A<sub>ir</sub>

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



# 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
<b>Dilution points</b>	10	16	64	128	256	1024
<b>Dilution principle</b>	Sonic nozzles (according ISO 6145-6) and high precision pressure regulators					
<b>Dilution gas line flow accuracy</b>	< 0.25 % of set point					
<b>Accuracy on concentration (rel)</b>	< 0.5 % on the highest dilution ratio					
<b>Repeatability on concentration</b>	Better than 0.14% relative					
<b>Power supply voltage</b>	230V/50-60Hz 115V/60Hz 100V/50-60Hz					
<b>Installed power (Max)</b>	150W					
<b>Dimensions</b>	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
<b>Dilution range</b>	10 - 100 %	1 - 100 %	0,1 - 100 %	to be define
<b>Dilution principle</b>	Mass Flow Controllers			
<b>Dilution gas line flow accuracy</b>	0.5 % (rel.) + 0,1 FS			
<b>Accuracy on dilution</b>	0.2% (rel.)			
<b>Power supply voltage</b>	230V/50-60Hz 115V/60Hz 100V/50-60Hz			
<b>Installed power (Max)</b>	65 - 150W			
<b>Dimensions</b>	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 H<sub>2</sub> +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

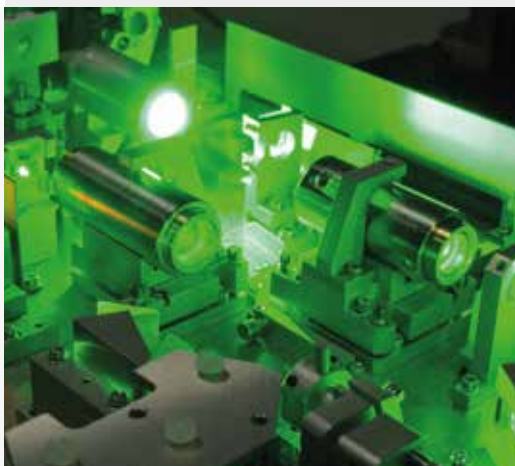


# More Applications

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

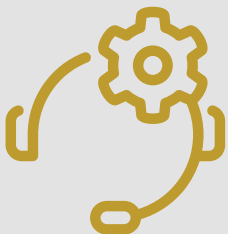
**Unlimited** repair parts

**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\*

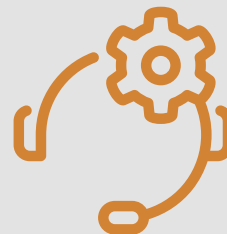
**Unlimited** Phone assistance

**Free** software upgrades

**Prescribed** consumables

**Unlimited** repair parts

**Free** remote diagnostics every 6 months



### E-contract SwissCare

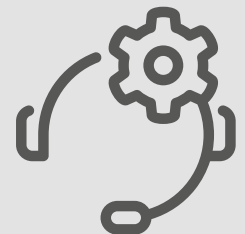
**Free** WiFi module\*

**Unlimited** Phone assistance

**Free** software & logiciel upgrades

**20% discount** on consumables

**20% discount** on repair parts



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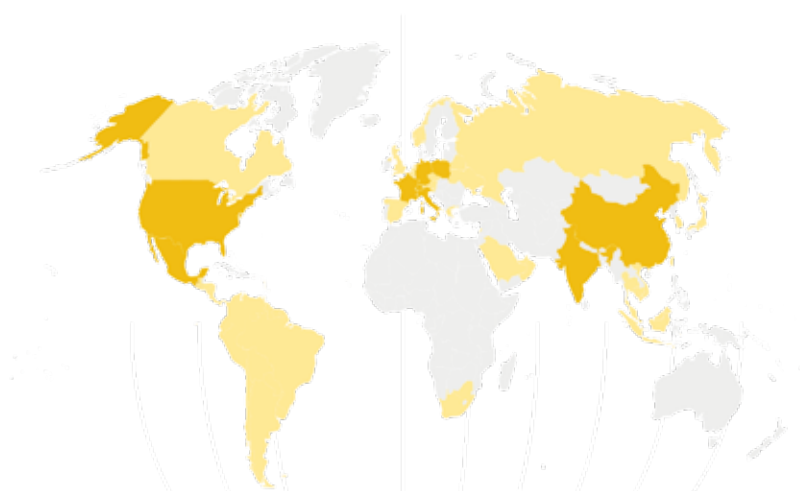
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