

Your local **gas generation partner**



# Product **catalogue**

2017/18

Discover more at [www.peakscientific.com](http://www.peakscientific.com)


**Our commitment  
is to provide you  
with a reliable gas  
generation solution  
that adds value to  
your workflow.**

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**Our priority  
is your  
complete  
satisfaction**

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## About us

Peak Scientific is a leading innovator in the design, manufacture and support of high performance gas generators for analytical laboratories. Established in the UK in 1997 near Glasgow (Scotland), where our corporate Headquarters and high-tech manufacturing and R&D facilities reside, Peak Scientific boasts a significant local presence on every continent – including major operations in North America, China and India.

With two decades of experience in pioneering reliable gas generator technology, Peak Scientific develops market-leading nitrogen, hydrogen and zero air systems mainly for the fields of LC-MS (Liquid Chromatography-Mass Spectrometry) and GC (Gas Chromatography).

What differentiates us is our world-class technical support and on-going service care throughout the generator's lifespan, wherever you may be in the world.

# 1.0 Our story

## OUR BRAND PROMISE

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Our commitment is to provide you with a reliable gas generation solution that adds value to your workflow. We achieve this through robust product engineering, our unique comprehensive 'repair or replace' warranty, and a global on-site maintenance service that is unmatched in our industry.

Our priority is your complete satisfaction. By taking due care of your gas flow, we give you peace of mind and enable you to focus on your workflow. This is the Peak Promise.

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## Our story

### THE PEAK WAY

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Peak Scientific is a family owned business and, as such, people are at the core of our unique product offering. Each generator is designed, assembled, tested, maintained and serviced by highly trained and dedicated professionals. The importance placed on people at Peak Scientific is consistent throughout our organization, it is the reason why we are committed to ongoing staff training and a policy of continual improvement in our engineering, manufacturing and field service capabilities - delivered by over 400 employees worldwide.

Our Mission, Values and Vision are structured around our Colleagues, our Customers and our Service and while our approach and atmosphere within the business is fun, friendly and informal, we also maintain a high degree of professionalism. The personable relationship Peak has with our customers is just one of the many reasons why people enjoy doing business with us.



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## Our story

### PROTECTING YOUR PRODUCTIVITY

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At the core of everything we do is long-term customer satisfaction. Beyond designing and manufacturing the world's best gas generators, is our commitment to maintaining their performance in your laboratory. We view your Peak gas generator as the beating heart of your laboratory, providing gas to your instruments and other processes. As such, all of our generators are backed up by a comprehensive warranty with rapid response on-site technical support providing you with peace of mind.

This is enhanced by our world-class **[Peak Protected]**<sup>™</sup> generator care, providing preventative maintenance, priority breakdown cover and on-going product upgrades. This ensures unhindered productivity and hassle-free, long lifetime operation.

The quality of our service is assured the world over with a local, direct Peak presence in over 20 countries. This is why our service is regarded as exceptional within the gas generator marketplace.



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## Our story

### MANUFACTURING EXCELLENCE

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Our products are the result of our meticulous Research and Development culture developed over 20 years of being at the forefront of the gas generator market. We pride ourselves in the utmost care taken to assess specific application needs prior to designing and rigorously testing new products.

As we have expanded, so have our R&D capabilities, both technically and in terms of know-how, to the point where we are better equipped than ever to meet changing market demands. Implementing the latest manufacturing technologies and philosophies ensures that Peak continues to set new standards for product quality, responsiveness and efficiency – all resulting in a better value for you.

Operating from our ISO 9001 accredited manufacturing center of excellence in the UK, every Peak Scientific generator is designed and tested to ensure compliance with all of the applicable safety and Electromagnetic Compatibility Standards.



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## Our story

### WHY A GAS GENERATOR?

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Peak Scientific offers you a practical and cost-effective alternative to pressurized gas cylinders, dewars or bulk storage of laboratory gas. Traditional sources of gas, for example nitrogen or hydrogen, incur on-going delivery, administrative and rental costs, all of which impact on business revenue or facility budgets.

A Peak generator provides you with a dependable, easy to use on-demand gas solution without any of the safety concerns or practical considerations highlighted below. What's more, while the price of delivered gas is subject to volatility as well as delivery delays, a generator from Peak Scientific represents a stable and dependable long-term investment.



#### CONVENIENT

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Gas on-demand, no cylinders to change or supply stocks to maintain



#### CONSISTENT

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Consistent gas quality and supply, no impurities or running out of gas



#### ECONOMICAL

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Eliminate on-going costs of cylinders, manage lifetime running costs

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## Our story

### GREEN SOLUTION

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While the economic benefits of investing in a gas generator are easy to appreciate (especially from the point of view of the lab manager!), there is also a genuine environmental benefit.

Consider the carbon footprint of a pressurized cylinder of gas, delivered from depot to your laboratory then collected again for refilling before resuming the cycle. Depending on geography, that could be substantial transportation distances, not to mention the energy consumption involved in industrial gas manufacture and processing. Engineered with energy efficiency in mind, a Peak Scientific gas generator offers a far more environmentally sustainable source of laboratory gas over its lifetime.



#### SAFE

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No pressurized compressed gas cylinders in your lab



#### GREEN

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No repeated gas deliveries, energy efficient



#### PROTECTED

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Comprehensive on-site warranty & service contracts

## 2.0 Genius

# It's good to know you have a Genius in your lab

Our Genius series is the culmination of over a decade's work in perfecting nitrogen gas generators for LC-MS applications. These generators deliver greater efficiency, superior reliability and improved performance than their predecessors.

**See the full range**

[www.peakscientific.com/genius](http://www.peakscientific.com/genius)



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Genius NM32LA	32 L/min	Nitrogen	100 psi / 6.9 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	Nitrogen generator compatible with most LC-MS instruments	CSA, CE
Genius NM-3G	32 L/min	Nitrogen	100 psi / 6.9 bar	753 x 250 x 730 mm 29.6 x 9.8 x 28.7"	32 L/min Nitrogen (with fail-safe) for mission critical clinical applications	CSA, CE
Genius 1050	32 L/min	Nitrogen	100 psi / 6.9 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	Nitrogen generator compatible with most LC-MS instruments	CSA, CE
Genius 1052	20 L/min 12 L/min	Heating Gas Cooling Gas	30 psi / 2.1 bar 20 psi / 1.4 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	Nitrogen generator for GCxGC modulators.	CSA, CE
Genius 1053	16 L/min	Nitrogen	100 psi / 6.9 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	16 L/min Nitrogen (Curtain/Collision gas)	CSA, CE
Genius 3010	64 L/min	Nitrogen	100 psi / 6.9 bar	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Nitrogen generator developed for LC-MS instruments requiring higher flow rates	CSA, CE
Genius 3020	32 L/min 32 L/min	Nitrogen Nitrogen	100 psi / 6.9 bar 100 psi / 6.9 bar	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Nitrogen generator developed to supply two LC-MS systems	CSA, CE
Genius N118LA	18 L/min	Nitrogen	100 psi / 6.9 bar	711 x 400 x 700 mm 28.0 x 15.7 x 27.6"	18 L/min Nitrogen compatible with LC-MS instruments	CSA, CE
<b>Sciex</b>						
Genius 1024	19 L/min 26 L/min 25 L/min	Nitrogen Dry Air Dry Air	65 psi / 4.5 bar 100 psi / 6.9 bar 60 psi / 4.1 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	Single SCIEX LC-MS (excluding MD)	CSA, CE
Genius AB-3G	12 L/min 24 L/min 8 L/min	Nitrogen Dry Air Dry Air	80 psi / 5.5 bar 110 psi / 7.6 bar 60 psi / 4.1 bar	753 x 600 x 730 mm 29.6 x 23.6 x 28.7"	For use with the SCIEX Range of LC-MS systems, up to and including the TripleTOF 4600.	CSA, CE
Genius AB-3G Hi-flow	12 L/min 24 L/min 14 L/min	Nitrogen Dry Air Dry Air	80 psi / 5.5 bar 110 psi / 7.6 bar 60 psi / 4.1 bar	753 x 600 x 730 mm 29.6 x 23.6 x 28.7"	Suitable for selected SCIEX IVD instruments	CSA, CE
Genius 3030	2 x 12 L/min 2 x 24 L/min 2 x 8 L/min	Nitrogen Dry Air Dry Air	80 psi / 5.5 bar 110 psi / 7.6 bar 60 psi / 4.1 bar	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Developed to supply two SCIEX LC-MS systems, up to and including TripleTOF® 4600 and 4500 series with independent control	CSA, CE
Genius 3031	18 L/min 26 L/min 25 L/min	Nitrogen Dry Air Dry Air	85 psi / 5.9 bar 100 psi / 6.9 bar 70 psi / 4.8 bar	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Suitable for selected SCIEX LC-MS instruments with higher flow requirements	CSA, CE
<b>Shimadzu</b>						
Genius 1051 / Genius 1061	25 L/min Combined	Nitrogen Dry Air	110psi / 7.6 bar 100 psi / 6.9 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	Suitable for Shimadzu 8045, 8050 and 8060 LC-MS systems	CSA, CE *
Genius 3051	26 L/min 20 L/min	Nitrogen Dry Air	100 psi / 6.9 bar -	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Suitable for Shimadzu 8045, 8050 and 8060 LC-MS systems	CSA, CE
<b>Thermo</b>						
Genius 1022	32 L/min	Nitrogen	116 psi / 8 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	Developed for the Thermo Q Exactive LC-MS instruments	CSA, CE
Genius 3022	32 L/min 32 L/min	Nitrogen Nitrogen	116 psi / 8 bar 116 psi / 8 bar	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Capable of supplying two Thermo Q Exactive LC-MS instruments	CSA, CE
<b>Agilent</b>						
Genius 3055	25 L/min 36.5 L/min	Nitrogen Dry Air	90 psi / 6.2 bar	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Agilent MP-AES 4100/4200/4210	CE
<b>Bruker</b>						
Genius 3045	25 L/min 50 L/min	Nitrogen Dry Air	80 psi / 5.5 bar	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Nitrogen generator developed for Bruker EVOQ QQQ instruments	CSA, CE

\* 1061 is for Japanese market and only has CE & CB Accreditation.

# Genius NM32LA

## DESCRIPTION

The culmination of over a decade's work perfecting on-site gas generation for LC-MS, the Genius NM32LA is the pinnacle of our Genius series. With thousands of units in the field, the NM32LA has become the proven and reliable nitrogen generator of choice in countless laboratories across the world.

The NM32LA delivers up to 32 liters per minute of nitrogen gas, suitable for most LC-MS instruments available on the market today.

## Features

Safe and convenient laboratory-grade nitrogen

Proven, robust and reliable technology

Highly economical source of nitrogen gas with low running costs

Standalone solution - no need for an external compressed air supply

Latest generation of compressors, in an insulated chamber to reduce noise and vibration



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Genius NM32LA	32 L/min	Nitrogen	100 psi / 6.9 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	Nitrogen generator compatible with most LC-MS instruments	CSA, CE

# Genius 3010

## DESCRIPTION

Genius 30 series generators are engineered with an increased flow rate to assist LC-MS instruments with a requirement for a higher nitrogen flow rate or to supply nitrogen for two instruments.

The Genius 3010 can deliver a single output of laboratory-grade nitrogen at flow rates of up to 64 liters per minute.

### Features

Higher flow rate to supply nitrogen hungry LC-MS systems

No need for an external compressed air supply

Minimal set-up required

Can supply two standard LC-MS instruments simultaneously



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Genius 3010	64 L/min	Nitrogen	100 psi / 6.9 bar	1322 x 600 x 850 mm 52.0 x 23.6 x 33.5"	Nitrogen generator developed for LC-MS instruments requiring higher flow rates	CSA, CE

# Genius NM-3G

## DESCRIPTION

Engineered specifically for critical applications requiring maximum uptime, the NM-3G on-site nitrogen gas generation system is guaranteed to perform at all times.

For such mission-critical applications, the NM-3G possesses a variety of extra precautionary features, including highly robust integrated compressors with additional load capacity, self-diagnostics and an alarm system to notify of any performance issue.

## Features

Additional compressor capacity to ensure continuous operation

Advanced alarms in the unlikely event of product issues

Self-diagnostic capabilities

Minimal set-up required

Highly economical source of nitrogen gas with low lifetime running costs



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Genius NM-3G	32 L/min	Nitrogen	100 psi / 6.9 bar	753 x 250 x 730 mm 29.6 x 9.8 x 28.7"	32 L/min Nitrogen (with fail-safe) for mission critical clinical applications	CSA, CE



# Genius 1050

## DESCRIPTION

Utilizing a Carbon Molecular Sieve with our Pressure Swing Adsorption technology, the Genius 1050 provides on-site nitrogen for most LC-MS instruments.

The Genius 1050 is well suited for a range of particularly demanding applications where specific performance benchmarks need to be met.

## Features

Highly economical source of nitrogen gas with low lifetime running costs

Innovative CMS and PSA technology ensures high performance

Service indication to allow planning of preventative maintenance

Minimal set-up required

The latest generation of compressors reducing noise and vibration



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Genius 1050	32 L/min	Nitrogen	100 psi / 6.9 bar	713 x 600 x 750 mm 28.1 x 23.6 x 29.5"	Nitrogen generator compatible with most LC-MS instruments	CSA, CE

# 3.0 Infinity Compressor-less N2 generators for your lab

Engineered to provide nitrogen to laboratories which already have an in-house compressed air source. Infinity generators are effectively silent in operation, with the ability to run uninterrupted, 24 hours a day and handle a wide variety of flow rates.

**See the full range**  
[www.peakscientific.com/infinity](http://www.peakscientific.com/infinity)



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Infinity NM18L	18 L/min	Nitrogen	100 psi / 6.9 bar	750 x 250 x 160 mm 29.5 x 9.8 x 6.3"	N2 supply for range of laboratory applications including LC-MS	
Infinity NM32L	32 L/min	Nitrogen	100 psi / 6.9 bar	750 x 470 x 160 mm 29.5 x 18.5 x 6.3"	N2 supply for range of laboratory applications including LC-MS	
Infinity XE 5011	10-130 L/min	Nitrogen	up to 135 psi / 9.3 bar	995 x 500 x 500 mm 39.2 x 19.7 x 19.7"	N2 supply for range of laboratory applications including LC-MS	CE
Infinity XE 5021	20-260 L/min	Nitrogen	up to 135 psi / 9.3 bar	995 x 500 x 500 mm 39.2 x 19.7 x 19.7"	N2 supply for range of laboratory applications including LC-MS	CE
Infinity XE 5031	30-390 L/min	Nitrogen	up to 135 psi / 9.3 bar	995 x 500 x 500 mm 39.2 x 19.7 x 19.7"	N2 supply for range of laboratory applications including LC-MS	CE
Infinity XE 5041	40-520 L/min	Nitrogen	up to 135 psi / 9.3 bar	995 x 500 x 500 mm 39.2 x 19.7 x 19.7"	N2 supply for range of laboratory applications including LC-MS	CE
Infinity 9000	34 L/min	Nitrogen	100 psi / 6.9 bar	750 x 250 x 160 mm 29.5 x 9.8 x 6.3"	Sample Evaporators	CE
<b>Sciex</b>						
Infinity 1031	19 L/min 26 L/min 25 L/min	Nitrogen Dry Air Dry Air	65 psi / 4.5 bar 110 psi / 7.6 bar 60 psi / 4.1 bar	760 x 365 x 200 mm 29.9 x 14.4 x 7.9"	1 x SCIEX LC-MS	
Infinity 1032	38 L/min 52 L/min 50 L/min	Nitrogen Dry Air Dry Air	65 psi / 4.5 bar 110 psi / 7.6 bar 60 psi / 4.1 bar	730 x 423 x 250 mm 28.7 x 16.7 x 9.8"	2 x SCIEX LC-MS	
Infinity 1033	57 L/min 78 L/min 75 L/min	Nitrogen Dry Air Dry Air	65 psi / 4.5 bar 110 psi / 7.6 bar 60 psi / 4.1 bar	730 x 423 x 250 mm 28.7 x 16.7 x 9.8"	3 x SCIEX LC-MS	
Infinity 1034	76 L/min 104 L/min 100 L/min	Nitrogen Dry Air Dry Air	65 psi / 4.5 bar 110 psi / 7.6 bar 60 psi / 4.1 bar	960 x 365 x 250 mm 37.8 x 14.4 x 9.8"	4 x SCIEX LC-MS	
<b>Bruker</b>						
Infinity 1045	32 L/min 50 L/min	Nitrogen Dry Air	90 psi / 6.2 bar 110 psi / 7.6 bar	730 x 424 x 250 mm 28.7 x 16.7 x 9.8"	Nitrogen generator developed for Bruker EVOQQ QQQ	CE
<b>Shimadzu</b>						
Infinity 1051	25 L/min (Combined total)	Nitrogen Dry Air	100 psi / 6.9 bar	730 x 424 x 250 mm 28.7 x 16.7 x 9.8"	Nitrogen generator developed Shimadzu LC-MS 8045/ 8050/ 8060 instruments	CE
Must be paired with a compressed air source which, as a minimum, meets ISO8753-1:2010 Class 1.4.1						

# Infinity NM32L

## DESCRIPTION

The Infinity NM32L compressorless nitrogen generator employs membrane technology to provide carrier gas for LC-MS and a range of other laboratory applications in conjunction with an in-house compressed air supply. With few moving parts, this generator has a long life and, if required, can operate effortlessly 24 hours a day.

### Features

Capable of supplying the majority of LC-MS instruments

Highly economical source of nitrogen gas with low lifetime running costs

Gas is supplied on demand so generator works to your schedule

Completely silent in operation

Minimal set-up required



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Infinity NM32L	32 L/min	Nitrogen	100 psi / 6.9 bar	750 x 470 x 160 mm 29.5 x 18.5 x 6.3"	N2 supply for range of laboratory applications including LC-MS	

Must be paired with a compressed air source which, as a minimum, meets ISO8753-1:2010 Class 1.4.1

# Infinity XE 50 Series

## DESCRIPTION

The Infinity XE 50 series of compressorless laboratory nitrogen generators, utilize Peak’s custom-designed membrane technology to deliver up to 520 L/min of high purity nitrogen for multiple laboratory instruments. Available in two variants, the 50X0 models have been factory-set to deliver nitrogen specifically for LC-MS instruments whilst the 50X1 models have an adjustable purity (up to 99.5%) determined by the inlet pressure and gas flow required to deliver laboratory grade gas to multiple nitrogen dependent instruments in the lab.

### Features

Flow rates ranging from 10-520 L/min\*

Variable N2 purities, ranging from 95-99.5%\*

Maximum output pressure of 135 psi

Built upon tried & tested membrane technology

Compact, space saving design

Purity safeguard, warning & auto-shutdown

Energy efficient eco-mode ensures low running cost



\*Dependent on inlet pressure, inlet/outlet flow & inlet air quality

Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Infinity XE 5010 - 5040	10 - 240 L/min	Nitrogen	100psi /6.9bar default (user adjustable)	995 x 500 x 500 mm 39.2 x 19.7 x 19.7"	N2 supply for multiple LC-MS instruments	CE
Infinity XE 5011 - 5041	10-520 L/min	Nitrogen	135 psi / 9.3 bar	995 x 500 x 500 mm 39.2 x 19.7 x 19.7"	N2 supply for range of laboratory applications including LC-MS	CE

Must be paired with a compressed air source which, as a minimum, meets ISO8753-1:2010 Class 1.4.1

# Infinity 1031

## DESCRIPTION

Membrane technology is at the heart of the Infinity range, generating high purity nitrogen on-site to users with an existing air supply. With the ability to perform at its maximum, 24 hours a day, and minimum maintenance requirements, the Infinity range offers a durable, hassle-free solution for SCIEX LC-MS systems.

### Features

Capable of supplying most SCIEX LC-MS systems

Exhaust, curtain and source gases from a single generator

24/7 operation at optimum performance if required

Completely silent in operation

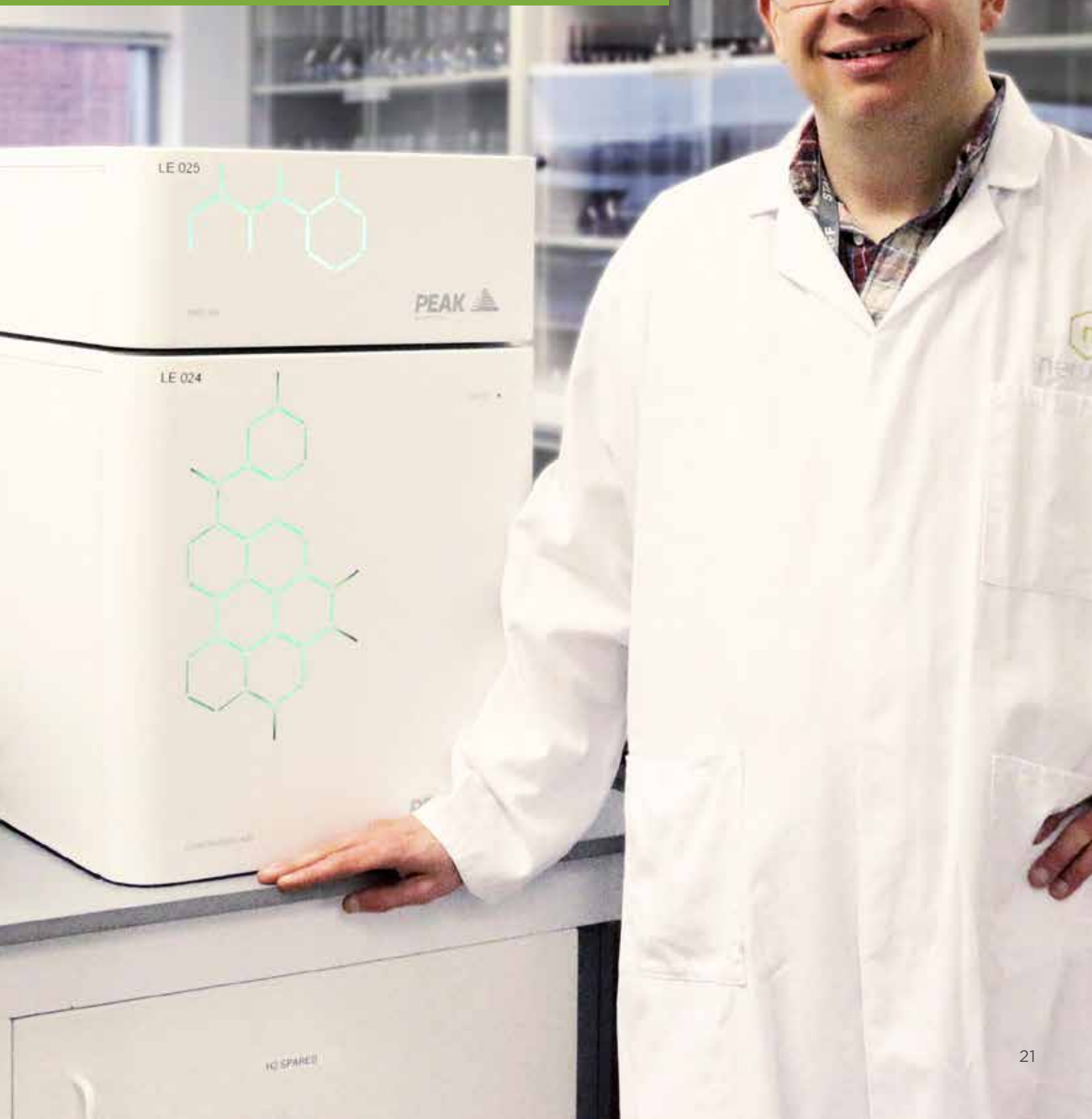


Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Infinity 1031	19 L/min 26 L/min 25 L/min	Nitrogen Dry Air Dry Air	65 psi / 4.5 bar 110 psi / 7.6 bar 60 psi / 4.1 bar	760 x 365 x 200 mm 29.9 x 14.4 x 7.9"	1 x SCIEX LC-MS	

Must be paired with a compressed air source which, as a minimum, meets ISO8753-1:2010 Class 1.4.1

**“The reasons we chose Peak’s Precision Series generators was for convenience and safety.”**

Ian Bennington - Senior Analyst - Nerudia



## 4.0 Precision

# Streamline your GC workflow with Precision

Combining convenience and reliability in a stackable and modular design, Precision is the safe and practical GC gas solution.

**See the full range**  
[www.peakscientific.com/precision](http://www.peakscientific.com/precision)





Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Precision Hydrogen Trace 250	250 cc/min	UHP Hydrogen	100 psi / 6.9 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC & GC-MS Carrier & Detector Gas, ICP-MS Reaction gas	CSA, CE
Precision Hydrogen Trace 500	500 cc/min	UHP Hydrogen	100 psi / 6.9 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC & GC-MS Carrier & Detector Gas, ICP-MS Reaction Gas , as for 250cc	CSA, CE

Precision Hydrogen 100	100 cc/min	Hydrogen	100 psi / 6.9 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC Detector Gas, ICP-MS Reaction Gas	CSA, CE
Precision Hydrogen 200	200 cc/min	Hydrogen	100 psi / 6.9 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC Detector Gas, ICP-MS Reaction Gas	CSA, CE
Precision Hydrogen 300	300 cc/min	Hydrogen	100 psi / 6.9 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC Detector Gas, ICP-MS Reaction Gas	CSA, CE
Precision Hydrogen 450	450 cc/min	Hydrogen	100 psi / 6.9 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC Detector Gas, ICP-MS Reaction Gas	CSA, CE

Precision Nitrogen Trace 250	250 cc/min	Zero Nitrogen	80 psi / 5.5 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC & GC-MS Carrier & Detector Gas	CSA, CE
Precision Nitrogen Trace 600	600 cc/min	Zero Nitrogen	80 psi / 5.5 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC & GC-MS Carrier & Detector Gas	CSA, CE
Precision Nitrogen Trace 1L	1000 cc/min	Zero Nitrogen	80 psi / 5.5 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC & GC-MS Carrier & Detector Gas	CSA, CE

Precision Nitrogen 250	250 cc/min	UHP Nitrogen	80 psi / 5.5 bar	256 x 380 x 540 mm 10.1 x 15.0 x 21.3"	GC Detector Gas	CSA, CE
Precision Nitrogen Headspace 250	250 cc/min	UHP Nitrogen	100 psi / 6.9 bar	256 x 380 x 540 mm 10.1 x 15.0 x 21.3"	GC Sample Preparation and Detector Gas	CE
Precision Nitrogen 600	600 cc/min	UHP Nitrogen	80 psi / 5.5 bar	256 x 380 x 540 mm 10.1 x 15.0 x 21.3"	GC Detector Gas	CSA, CE
Precision Nitrogen 1L	1000 cc/min	UHP Nitrogen	80 psi / 5.5 bar	256 x 380 x 540 mm 10.1 x 15.0 x 21.3"	GC Detector Gas	CSA, CE

Precision Zero Air 1.5	1.5 L/min	Zero Air	80 psi / 5.5 bar	156 x 380 x 540 mm 6.1 x 15.0 x 21.3"	GC Detector Gas	CSA, CE
Precision Zero Air 3.5L	3.5 L/min	Zero Air	80 psi / 5.5 bar	156 x 380 x 540 mm 6.1 x 15.0 x 21.3"	GC Detector Gas	CSA, CE
Precision Zero Air 7	7 L/min	Zero Air	80 psi / 5.5 bar	260 x 380 x 540 mm 10.2 x 15.0 x 21.3"	GC Detector Gas	CE
Precision Zero Air 18L	18 L/min	Zero Air	80 psi / 5.5 bar	260 x 380 x 540 mm 10.2 x 15.0 x 21.3"	GC Detector Gas	CE
Precision Zero Air 30L	30 L/min	Zero Air	100 psi / 6.9 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	GC Detector Gas	CE

Precision Air Compressor	various cc/min	Compressed Air	145 psi / 10 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	Independent air supply for Precision modules	CSA, CE
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# Precision Hydrogen

## DESCRIPTION

The Precision Hydrogen Standard generators are designed to provide the gas needed for GC detectors requiring hydrogen fuel gas, such as FID and FPD whilst the Precision Hydrogen Trace generators are capable of supplying GC carrier gas as well as detector gases for multiple GCs. One generator is capable of supplying multiple detectors, and there are various flow rates available to suit individual laboratory needs. These generators utilize a Proton Exchange Membrane (PEM) to create the hydrogen gas from deionized water and a desiccant filtration stage is used to dry the gas. The Precision Hydrogen generators are also suitable for providing collision gas for ICP-MS.

Precision Hydrogen gas generators come with various safety features as standard, giving you complete peace of mind in the laboratory and are a far safer, dependable and convenient alternative to cylinders.

### Features

99.9995% purity (standard) /  
99.9999% purity (trace model)

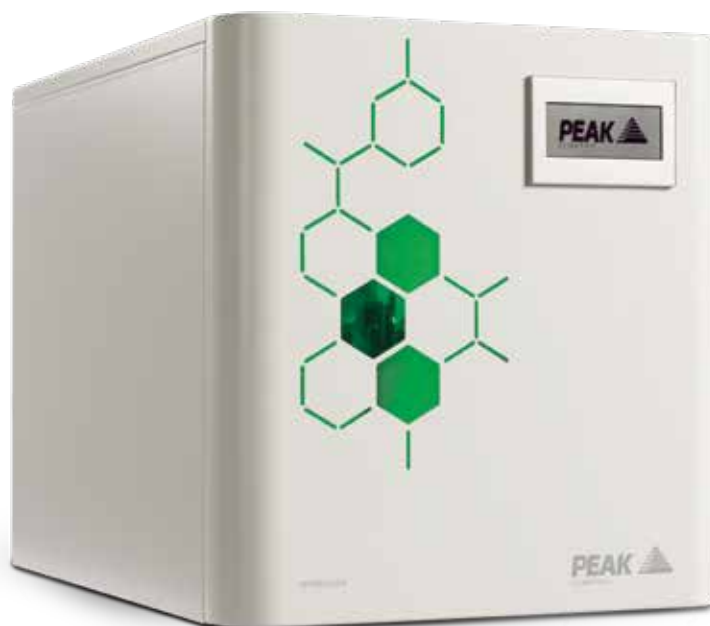
Suitable for GC detector gas (all) and  
carrier gas (trace model only)

Creates hydrogen on demand,  
minimal storage of hydrogen in the  
system

Low maintenance and minimal  
running costs over product lifetime

Internal leak detection with  
automatic shutdown

Automatic loading pump as standard



# Precision Nitrogen

## DESCRIPTION

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The Precision Nitrogen generators are available in both standard and trace models. The standard models come in 250cc, 600cc and 1 liter and are able to provide make-up gas, reference gas and for sample preparation (i.e. headspace). The Nitrogen Trace models are engineered to offer zero nitrogen as carrier gas, make-up gas and reference gas for sample preparation available in 250cc, 600cc and 1L models.

These generators are capable of delivering high purity nitrogen, removing oxygen and moisture via Pressure Swing Adsorption and Carbon Molecular Sieve technology. As with all Precision Series generators, nitrogen models benefit from a compact and modular, stackable design, minimizing the total footprint required for GC gas supply, and providing flexibility to add or remove modules as your laboratory requirements evolve over time.

## Features

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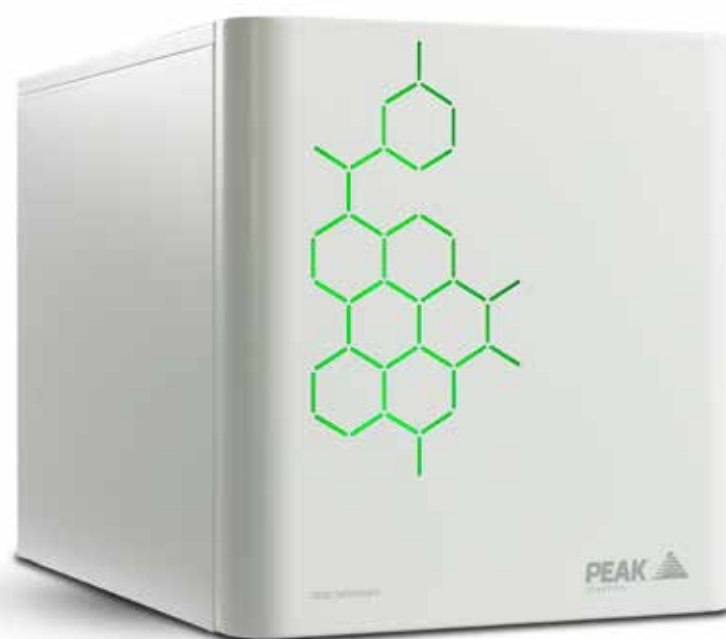
All models offer 99.9995% purity

Nitrogen Trace model suitable as GC and GC-MS carrier and detector gas

Trace capable of delivering “zero nitrogen” as carrier gas, make-up gas and sample preparation

Highly economical source of nitrogen gas with low lifetime running costs

Ultra-fast start-up time, quick to reach standard operating purity



# Precision Zero Air

## DESCRIPTION

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The Precision Zero Air generators are designed specifically to supply clean, dry, hydrocarbon-free air to be used as flame support gas for GC.

As with all Precision Series generators, Zero Air benefits from a compact and modular, stackable design, minimizing the total footprint required for GC gas supply, and providing flexibility to add or remove modules as your laboratory requirements evolve over time.

### Features

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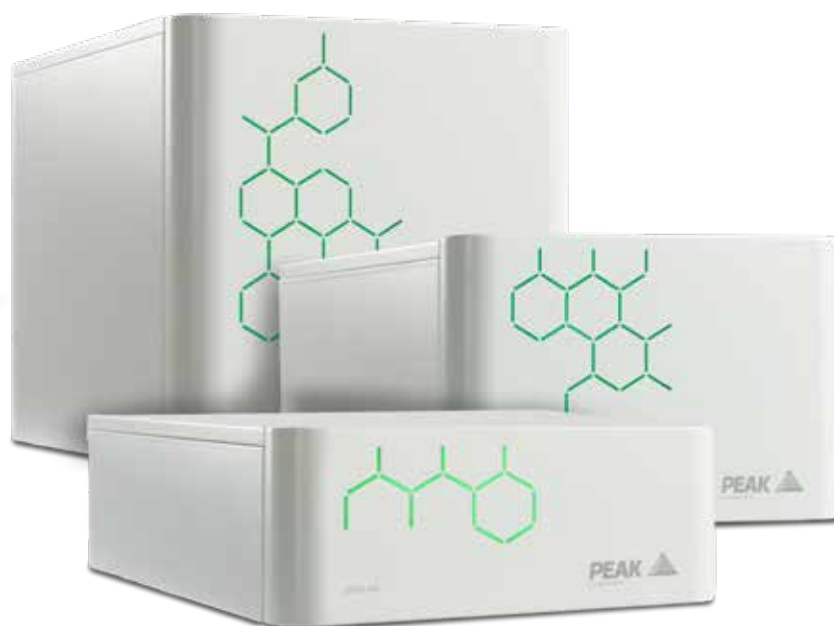
Hydrocarbon content <0.05ppm for market-leading purity

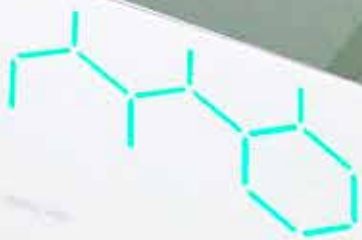
Integrates seamlessly with other Precision units

Minimum lifetime maintenance requirements, no expensive catalyst chamber replacements

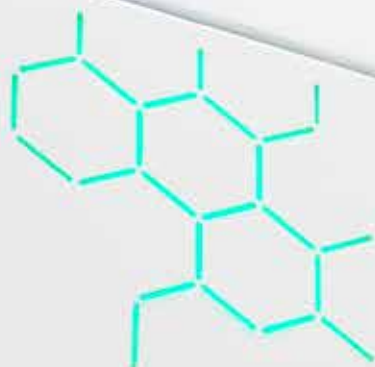
Highly economical source of dry, hydrocarbon free air

Avoid risk of contaminants entering the system (when switching out empty cylinders)





PEAK  
SCIENTIFIC



NITROGEN

PEAK  
SCIENTIFIC



HYDROGEN

PEAK  
SCIENTIFIC

# 5.0 Specialist Solutions

## Every lab needs a specialist

Beyond our core ranges of laboratory gas generators, we have developed tailored solutions to meet the specific demands of many key analytical applications and instrument types.

**See the full range**

[www.peakscientific.com/  
specialist-solutions](http://www.peakscientific.com/specialist-solutions)





PEAK 



SOLARIS

PEAK   
SCIENTIFIC

# Solaris Series

## DESCRIPTION

With flow rates ranging from 3-35L/min, depending on model, Solaris generators are compact and economical nitrogen gas solutions for labs.

The Solaris 10, available with an optional stackable compressor unit, is suitable for ELSD, Compact Mass Spectrometry and TLD Readers whilst the Solaris XE can supply a single LC-MS or multiple lower flow laboratory instruments requiring nitrogen. These models have been built with space-saving in mind requiring only limited laboratory benchspace.



## Features

High purity nitrogen for ELSD or Compact Mass Spectrometers

Flows up to 10 L/min at 100 psi and up to 99.5% purity (Solaris 10)

Flows up to 35 L/min at 116 psi and up to 99.5% purity (Solaris XE)

Compact benchtop form factor

Colour indicative LED lighting for easy status awareness

Optional Solaris Air Compressor stackable module

Manufactured and tested to highest specifications in UK; CE and FCC certified

Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Solaris 10	10 L/min	UHP Nitrogen	up to 100 psi / 6.9 bar	156 x 416 x 540 mm 6.1 x 16.4 x 21.3"	ELSD, Compact Mass Spectrometers TLD Readers	CE
Solaris XE	Up to 35 L/min	Nitrogen	up to 116psi / 8bar	156 x 343 x 650 mm 6.1 x 13.5 x 25.6"	LC-MS, Compact MS, Multiple ELSDs, TLD readers	CE

Separate Solaris Air Compressor generator pictured on page 29



# Corona Nitrogen 1010

## DESCRIPTION

Our Corona 1010 has been engineered to meet the specifications of the Thermo Scientific Corona Veo Charged Aerosol Detector and Vanquish instruments.

This system can be purchased as a single nitrogen unit for laboratories with an in-house air supply or with a stackable air compressor for laboratories without an external air supply.

## Features

Suitable for applications requiring ultra high purity

Dedicated solution for Thermo Scientific's Corona Veo and Vanquish instruments

Tried and tested membrane technology

Optional Corona Air Compressor stackable module



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
Corona Nitrogen 1010	5 L/min	Nitrogen	80 psi / 5.5 bar	156 x 351 x 650 mm 6.1 x 13.8 x 25.6"	Thermo Fisher Scientific Corona Veo CAD, Dionex ERS/Vanquish CAD	CE

Separate Corona Air Compressor generator pictured on page 28

# NG Series

## DESCRIPTION

The NG Series delivers ultra high purity nitrogen at flows of up to 5 L/min for GC, DSC and DMA applications, as well as other laboratory applications requiring up to 5 L/min of ultra high purity nitrogen. The NG series can be supported by in-house air or supplied with an integrated compressor.

To reach their ultra high purity nitrogen output these generators use Pressure Swing Adsorption and a Carbon Molecular Sieve. These separation technologies remove oxygen and other impurities in air, delivering hassle-free, ultra high purity nitrogen, on-demand for the lab.

### Features

Suitable for applications such as GC, DSC, DMA

Suitable for applications requiring ultra high purity nitrogen

Available with or without an external compressor

Contains self-regenerating Carbon Molecular Sieve column

Available in either 3 L/min or 5 L/min model



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
NG3000(A) incl air supply	3 L/min	UHP Nitrogen	80 psi / 5.5 bar	1222 x 432 x 406 mm 48.1 x 17.0 x 16.0"	GC, ICP, DSC, DMA	CE
NG5000(A) incl air supply	5 L/min	UHP Nitrogen	80 psi / 5.5 bar	1222 x 432 x 406 mm 48.1 x 17.0 x 16.0"	GC, ICP, DSC, DMA	CE

# TOC 1500 HP

## DESCRIPTION

Designed to provide a reliable air supply for TOC analyzers, the TOC1500HP is a robust system used in labs to produce clean, dry CO<sub>2</sub> and CH<sub>4</sub> free air

### Features

Produces clean, dry, CO<sub>2</sub> and CH<sub>4</sub>-free air

Capable of 24/7 operation

Suitable for TOC analyzers

Completely silent in operation



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
TOC 1500 HP	1.5 L/min	Ultra Zero Air, CO <sub>2</sub> Free Air	80 psi / 5.5 bar	620 x 430 x 410 mm 24.4 x 16.9 x 16.1"	TOC Analyzers	CE

## 6.0 i-FlowLab

# Scalable high-flow, high purity N2 solution for labs

i-FlowLab is a modular & expandable on-site nitrogen generation system. It is capable of delivering a continuous & consistent supply, at a range of purities (up to 99.9995% N2) and flow rates to meet the full & varying gas demands of your combined laboratory applications, such as LC-MS, gloveboxes, fume hoods, sample evaporators and more.



**See the full range**  
[www.peakscientific.com/iflowlab](http://www.peakscientific.com/iflowlab)

## Total on-site laboratory nitrogen gas generation solution

HIGH FLOW, HIGH PURITY NITROGEN

# Key Features



- **Consistent & Convenient** - Constant, reliable, stable & on-demand gas supply that eliminates the inconvenience of changing cylinders or dewars.
- **Economical & Sustainable** - A cost effective total laboratory nitrogen gas supply solution that eliminates the need for bulk delivery.
- **Expandable & Scalable** - i-FlowLab has the capacity to meet and exceed your current gas demands with the ability to expand as your laboratory grows.
- **Energy Efficient** - An innovative 'Eco-mode' ensures the lowest running costs by automatically managing production based on your daily demands.
- **Safe Supply** - Eliminate the handling of cylinders or storage of highly pressurized gases.
- **Verified Compliance** - Exceeds standards of EIGA, EC Food Grade, European Pharmacopoeia, JECFA and US Food & Drug Administration (CFR Title 21) . Peak IQ/OQ certification also available.
- **High Quality Engineering** - Peak is an ISO 9001 certified manufacturer and i-FlowLab is expertly engineered to ensure performance and reliability.

# i-FlowLab

## DESCRIPTION

i-FlowLab from Peak Scientific provides a total laboratory solution for on-site generation of nitrogen gas, delivering a continuous and consistent supply of high-purity nitrogen at the required pressure and flow rates to meet the full and varying demands of your laboratory or research facility.

Engineered around PSA technology, i-FlowLab is available in various pre-configured specifications to suit specific flow and purity demands. A single i-FlowLab generator installation can provide nitrogen at flow rates from 21 - 4253 L/min. Purities are specified at time of system design to meet the needs of the application up to 99.999%.

Thanks to expandable design, additional CMS columns can be added to each i-FlowLab generator after installation to increase the maximum flow rate.

### Features

Consistent, constant, reliable, on-demand supply of on-site gas

No instrument or application downtime as a result of running out of stored gas

Bring control of your nitrogen supply in-house

No more administration costs

Scalable / Expandable, increase nitrogen production

Economical, fast return on investment and low cost of ownership with predictable running costs



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Applications	Accreditations
i-FlowLab 601X-610X	21 - 4253 L/min	95 - 99.9995 % UHP Nitrogen	87- 145 psi / 6 - 10 bar	1738 x 500 x 760-2200 mm 68.4 x 19.7 x 30.0 - 86.7"	LC-MS, Fume Hoods, Glovebox, Sample Evaporators & more	CSA, CE

## CONSULTATIVE DESIGN & PROJECT MANAGEMENT



Alongside technological innovation and expertise, Peak also provides an industry-leading, wrap around consultative system design and project management service. Peak Scientific's highly trained and dedicated specialists are experts at designing turnkey solutions that perfectly meet current and future needs.

### Our project teams professionally manage each step of the process, including:

- Consultation
- System design
- Procurement
- Installation & commission

### Scalable

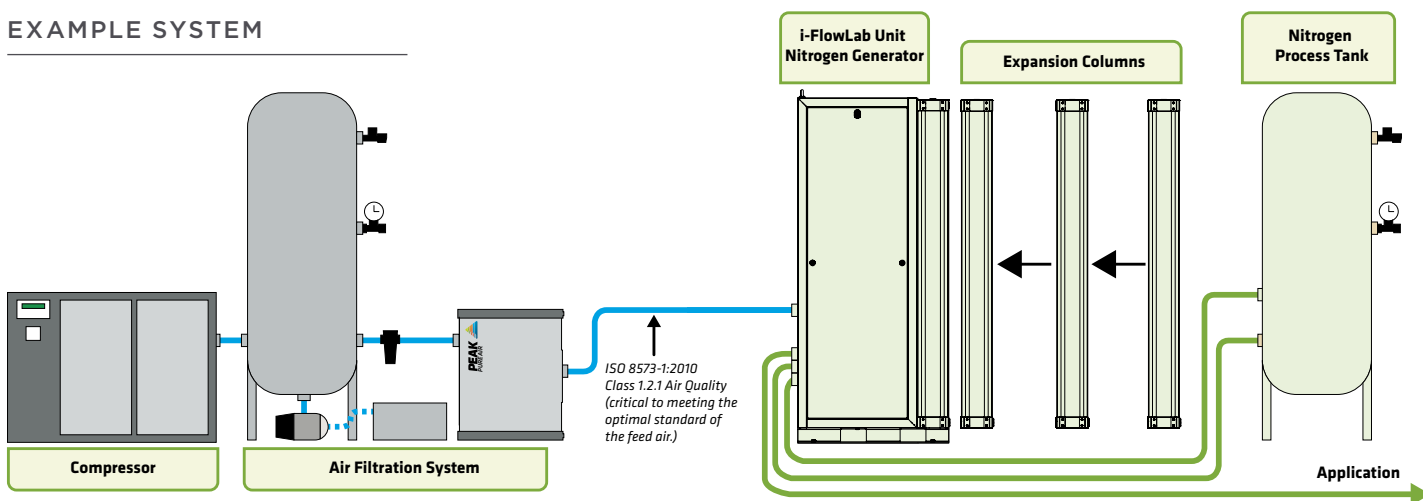
Up to ten CMS column banks can be added to each single i-FlowLab unit in less than a day, increasing nitrogen production capacity with minimal downtime.

### Modular

Multiple units can be synchronized to meet demands based on application flow-rates and purity requirements (more units = greater flow-rates at specified purity).

**95 - 99.9995% N<sub>2</sub> purity, at 21 - 4253 L/min**

## EXAMPLE SYSTEM

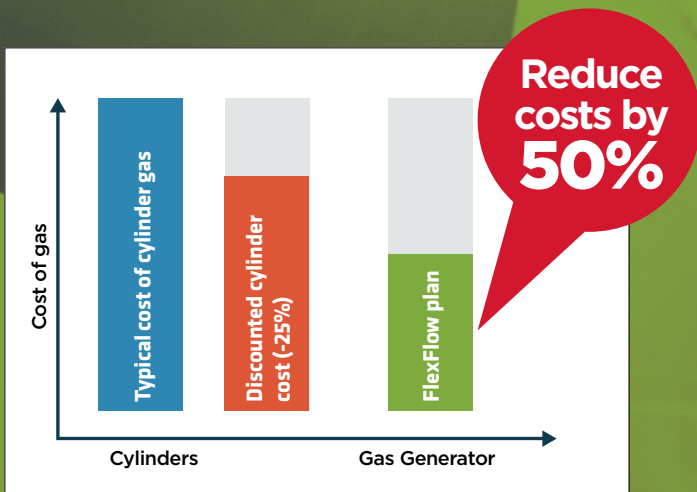


# 7.0 FlexFlow

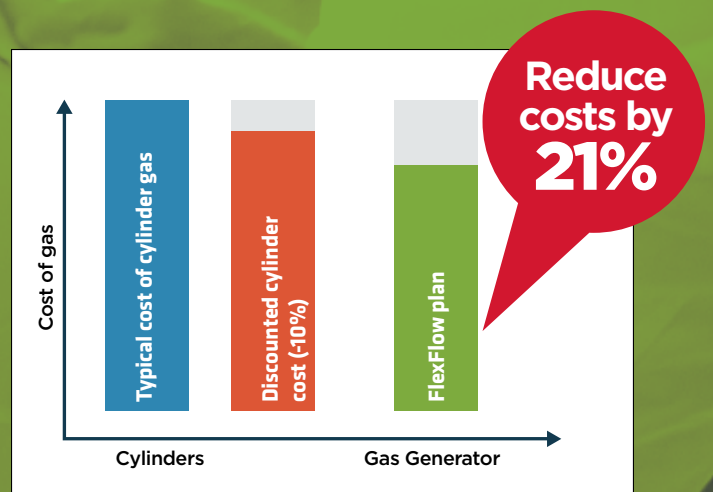
## Lower your monthly lab gas costs by up to 50%

With FlexFlow from Peak Scientific, you can enjoy the best of both worlds when it comes to instrument gas. Convenience, safety and consistency of supply from a gas generator, with the affordability and flexibility of a subscription.

High cylinder usage vs. **FlexFlow**



Typical cylinder usage vs. **FlexFlow**





## Less cost

With FlexFlow, expect to save up to 50% on the cost of buying lab gas, with the biggest saving for high-usage users running their equipment all day, all week. Even those with a good deal on gas can expect lower costs.

- ✓ **No** annual or bi-annual price increases
- ✓ **No** delivery charges
- ✓ **No** need to pay for staff cylinder usage training
- ✓ **No** purchase and on-going maintenance of regulators
- ✓ **No** energy/fuel surcharges
- ✓ **No** time required to changeover cylinders

## Less hassle

Are you fed-up of running out of gas at the worst possible moment and your analysis grinding to a halt? Let FlexFlow remove all the hassle of cylinders - gas should be the last thing on your mind.

- ✓ **Gas on demand** - nitrogen supply at the push of a button
- ✓ **No** more changing over cylinders or dewars
- ✓ **No** manual handling of heavy pressurized cylinders
- ✓ **Never** run-out of gas again
- ✓ **No** need for health and safety training for staff
- ✓ **No** need to deal with frequent deliveries and admin

## Less stress

With FlexFlow, we take away all the worry of generator ownership, maintenance and servicing - leaving you to focus on what's important to you - your work.

- ✓ **Streamline lab workflow**, increase productivity
- ✓ **Service and upkeep** included
- ✓ **Rapid response** on-site technical support
- ✓ **No worries** about maintaining supply
- ✓ **Reduce impact** on lab budgets and bottom line
- ✓ **No risk** of contamination with a closed system

## 8.0 Peak Protected

# Safeguard your laboratory workflow with [**PEAK Protected**]<sup>TM</sup>

Servicing any equipment in your lab should not be seen as just an option, it should be treated as a necessity. With many moving parts and wear & tear, especially where generators feature integrated compressors, as well as filters and other 'consumables', a gas generator needs to be maintained regularly to continue to perform at its best for many years.

Here at Peak we see your gas generator as the beating heart of your laboratory, enabling your analytical instruments to perform and achieve the results you need. With this being the case it is extremely important you look after your 'beating heart' to ensure the best possible results.

We offer a range of **[Peak Protected]** services to suit your particular needs.



#### **Premium Plan**

Complete maintenance care with 24 hour rapid response breakdown cover



#### **Complete Plan**

Complete maintenance care with guaranteed response time breakdown cover



#### **Fixed Price PM**

Preventative maintenance carried out by an expert Peak engineer at a time that suits you



#### **Supported Plan**

Preventative maintenance support specifically for compressor-less generators



#### **Paid Repairs**

On-site repairs carried out by a certified Peak FSE in case of a breakdown



#### **Replacement Parts**

Genuine Peak parts with express delivery, ensuring optimal performance and lifetime



#### **Installation**

Trained Peak FSE will visit to install and commission your generator



#### **IQ/OQ**

Certified assurance for applications requiring documented qualification



#### **Technical Support Hotline**

Around the clock support by phone or online with our global technical helpdesk

## Not all warranties are equal.

What differentiates Peak from other gas generator manufacturers is that a Peak gas generator comes with a truly comprehensive on-site warranty. This means that in the unlikely event that your gas generator develops a problem, we will send a Peak Certified Field Service Engineer to your laboratory to try to resolve the issue on-site and get you back up and running with minimal fuss and disruption.

What's more, when we say fully-comprehensive, we mean it. Every part of your generator is covered during warranty. While other manufacturer warranties may only cover certain components or require the return of your generator to the factory for repair, leaving you without gas for weeks or even months, our warranty is designed to give you complete peace of mind.

To find out more about our unique warranty, visit [www.peakscientific.com/warranty](http://www.peakscientific.com/warranty)



**Contact us today** to discover more!

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