

Your local **gas generation** partner



# Gas Generators

For Bruker Instruments



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

## Our story

### THE PEAK WAY

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PEAK Scientific is a leading innovator in the design, manufacture and support of high-performance gas generators for analytical laboratories. Established 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 over two decades of experience pioneering reliable gas generator technology, PEAK Scientific develops market-leading nitrogen, hydrogen and zero air systems mainly for the field of LC-MS and GC.

Our strength lies in providing our customers with high-quality, dependable gas generation solutions tailored to meet their specific laboratory demands; what differentiates us is our world-class technical support and on-going service care throughout the generator's lifespan, wherever you are in the world.

### THE PEAK WAY

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Our products are the result of our meticulous Research and Development culture, built over more than 20 years at the forefront of the gas generator market. We pride ourselves on the greatest care taken to assess specific application needs before designing and rigorously testing new products. As we have expanded, our R&D capabilities have advanced to the point where we are better equipped than ever to meet changing market demands. By implementing the latest manufacturing technologies and philosophies, PEAK continues to improve product quality, responsiveness and efficiency – resulting in a better value proposition for our customers. Every PEAK Scientific generator is designed from our ISO 9001:2015 accredited manufacturing center of excellence in the UK and independently tested to ensure compliance with all applicable safety standards.

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## Our story

### PEAK AND BRUKER

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Bruker is a global manufacturer and distributor of mass spectrometers and analytical tools headquartered in Billerica, Massachusetts. Bruker and PEAK Scientific have been working in conjunction since 2009 when the NM30LA, now replaced by the Genius SQ24, was used as a nitrogen solution for Bruker instruments.

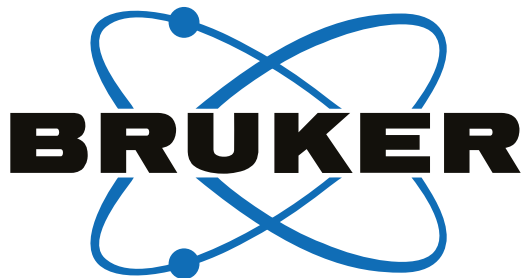
Since then, PEAK has produced several gas generator solutions for Bruker applications including the Genius 3045 and Infinity 1045.

### DEDICATED GAS SOLUTION

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Product Managers and Engineers from both organizations are in constant contact throughout the New Product Development process to ensure PEAK's products meet and exceed the specific gas requirements of Bruker's range of LC-MS instruments.

There is a PEAK Scientific gas generator for most Bruker LC-MS instruments. PEAK have engineered purposely built generators, matching the most efficient operating standards of Bruker's LC-MS instruments including the EVOQ and TimsTOF Mass Spectrometers.



## Our story

### PEAK PERFORMERS: OUR WORLD-CLASS PRODUCT PLATFORMS

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Three distinct product series define our core offering to supply Bruker's analytical laboratory instruments. Our best-selling Genius Series, designed mainly for LC-MS applications, is a self-contained system featuring integrated compressors, delivering laboratory-grade nitrogen at various pressures and flow rates required by a myriad of instruments.

The Infinity series of nitrogen gas generators are silent-running compressor-free systems for laboratories with an in-house supply of clean, dry air - delivering nitrogen in a wide range of flow rates including high-flow for more gas hungry applications such as sample evaporation or supplying multiple mass-spec instruments.

For very high-flow, high demand needs, our innovative Pressure Swing Adsorption based i-FlowLab technology is designed to meet the full and total demand for nitrogen gas a facility may have, all in one expandable installed solution.



## Application Matrix

Application		PEAK Solution
micrOTOF series solarIX series amaZon series compact series impact series maXis series timsTOF series  <b>w/ Apollo II ESI</b>	No Compressor	<ul style="list-style-type: none"> <li>Solaris XE</li> </ul>
	Built in Compressor	<ul style="list-style-type: none"> <li>Genius SQ 24</li> <li>Genius XE 35</li> </ul>
compact series impact series maXis series timsTOF series  <b>w/ VIP-HESI</b>	No Compressor	<ul style="list-style-type: none"> <li>Infinity 1045</li> </ul>
	Built in Compressor	<ul style="list-style-type: none"> <li>Genius 3045</li> </ul>
EVOQ TQ LCMS	No Compressor	<ul style="list-style-type: none"> <li>Infinity 1045</li> </ul>
	Built in Compressor	<ul style="list-style-type: none"> <li>Genius 3045</li> </ul>
ultrafleX series rapifleX series	No Compressor	<ul style="list-style-type: none"> <li>Precision Nitrogen Trace 250</li> </ul>
	Built in Compressor	<ul style="list-style-type: none"> <li>Precision Nitrogen Trace 250 plus Precision Air Compressor</li> </ul>
TENSOR Series FT-IR	No Compressor	PG14L
	Built in Compressor	PG14L plus Precision Air Compressor
EMX EPR Spectrometer	No Compressor	PG28L
	Built in Compressor	PG14L plus Precision Air Compressor
AVANCE	No Compressor	i-Flow
	Built in Compressor	i-Flow*
Note: * The i-FlowLab can be supplied with an external compressed air supply. <ul style="list-style-type: none"> <li>Included on Bruker Corporate Price List</li> </ul>		

## Product

# Genius SQ24

### DESCRIPTION

For labs using any Single Quad LC-MS systems, the Genius SQ 24 nitrogen gas generator delivers a high purity nitrogen supply dedicated for this instrument. With a compact size to fit under most lab benches and flow rates of up to 24 L/min, meeting and exceeding the maximum flow rate required by any Single Quad LC-MS on the market today, your lab can enjoy hassle free nitrogen gas which helps you deliver the best analytical results.

Genius SQ 24 has been designed using PEAK's experience of over two decades of working with and developing the best nitrogen generator membranes using expert suppliers and highly skilled PEAK design and manufacturing engineers. This rigorous design process has helped not only deliver a reliable, high performance gas generator, it is also the best value nitrogen generator on the market today.

### Features

Best value nitrogen generator on the market

Variable flow up to 24 l/min

Analytical grade nitrogen supply for Single Quad LCMS

Outlet pressure up to 116psi (at 22 l/min maximum)

Reduced height and compact size to fit under most lab benches

Integrated internal compressors for easy plug and play

Based on proven and highly reliable technology

Backed by PEAK Protected global on-site servicing, technical support and partner training



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
Genius SQ 24	up to 24 L/min	Nitrogen	116 psi / 8 bar	610 x 600 x 750 mm 24.0 x 23.6 x 29.5"	Single Quad LC-MS

## Product

# Genius 3045

## DESCRIPTION

Designed to the specifications of the Bruker EVOQ Triple Quadrupole's gas requirements delivering dry air at up to 50L/min and nitrogen at up to 32L/min.

## Features

Independent nitrogen and dry air gas supplies can be tailored for its application

Higher flow 30 Series generator designed for hungrier LC-MS applications

Compressor based solution, no need for an external air supply

Highly economical source of nitrogen gas with low lifetime running costs

Gas is supplied on demand so generator works to your schedule

Service indication to allow planning of preventative maintenance

The latest generation of compressors located in an insulated chamber reducing noise and vibration

12 month comprehensive on-site warranty



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
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

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We run our instruments 24/7 so having gas cylinders supplies onboard for one year was an issue. I started to look for other options and found the gas generators from PEAK. The added benefit of this is that they offered us a **fast delivery** just in time for the expedition starting.

**Adela Dumitrascu**

Research Engineer  
The University of Gothenburg  
Sweden

”



## Product

# Precision Nitrogen Trace 250

### DESCRIPTION

The Precision Nitrogen Trace 250 provides a constant and consistent source of nitrogen for carrier, make-up and reference gas for GC.

### Features

Suitable for carrier gas and make up gas at tracedetection limits

Generates ultra high purity nitrogen on demand from compressed air

Regenerative CMS columns remove oxygen and moisture

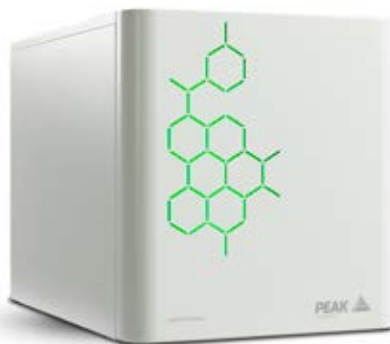
Catalyst chamber to remove hydrocarbons (as methane) to <0.05 ppm

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

Minimum maintenance with an annual filter change

Compact, space-saving modular design

12 month comprehensive on-site warranty



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
Precision Nitrogen Trace 250	250 cc/min	Zero Nitrogen	120-145 psi / 8.3-10 bar	406 x 380 x 540 mm 16.0 x 15.0 x 21.3"	ultrafleX series rapifleX series

## Product

# Infinity 1045

### DESCRIPTION

The Infinity 1045 compressor-less nitrogen generator has been specifically designed to supply the Bruker EVOQ Triple Quadrupole Mass Spectrometer with carrier nitrogen gas and a separate dry air output.

### Features

Performs to the specifications of the Bruker EVOQ Triple Quadrupole mass spectrometer and suitable for instruments with similar requirements

24/7 operation at optimum performance if required

Gas is supplied on demand so generator works to your schedule

Few moving parts means little maintenance required and ensures long life of the generator

Minimal set-up required

Completely silent in operation

12 month comprehensive on-site warranty



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
Infinity 1045	32 L/min 50 L/min	Nitrogen Dry Air	90 psi / 6.2 bar 110psi / 7.6 bar	730 x 424 x 250 mm 28.7 x 16.7 x 9.8"	Nitrogen generator developed for Bruker EVOQ QQQ

## Product

# Solaris XE

## DESCRIPTION

PEAK Scientific's Solaris XE generator has been engineered using membrane technology to meet the gas delivery requirements for labs using LC-MS, Compact LC-MS or multiple ELSDs.

## Features

Nitrogen up to 35L/min, up to 116 psi and up to 99.5% purity

Variable outlet flow, pressure and purity

Compact, stackable\* system maximising the use of valuable laboratory floor or bench space

Colour indicative LED lighting for easy status awareness

Manufactured and tested to highest spec in UK, CE/FCC certified

Safer and more convenient than pressurized cylinders, dewars or bulk storage

12 month on-site comprehensive warranty

Backed by [PEAK Protected] global on premise servicing and technical support

\*units stacked on top of Solaris must not exceed 100kg/220.4lbs



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
Solaris XE	35 L/min	Nitrogen	116psi / 8 bar	156 x 343 x 650 mm 6.1 x 13.5 x 25.6"	microTOF series, solarix series, amaZon series, compact series, impact series, maXis series, timsTOF series, w/ Apollo II ESI

# 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



**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)

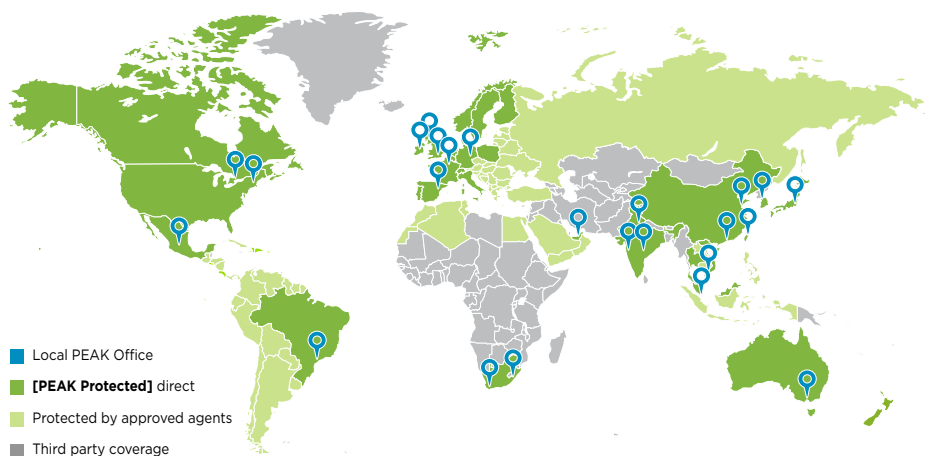
## Our Brand Promise

Our priority is  
your **complete**  
**satisfaction**

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.

# Your local **gas generation** partner



PEAK Scientific has highly trained, fully certified Field Service Engineers located in over 20 countries across every continent around the world. This allows us to provide an industry-leading rapid response service to our customers. With **[PEAK Protected]**, your laboratory's productivity becomes our top priority.

## Contact us today to discover more!

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**[www.peakscientific.com/offices](http://www.peakscientific.com/offices)**