

Your local **gas generation** partner



Gas Generators

For Bruker Instruments



Discover more at www.peakscientific.com

Our story

THE PEAK WAY



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

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.

Our story

PEAK AND BRUKER

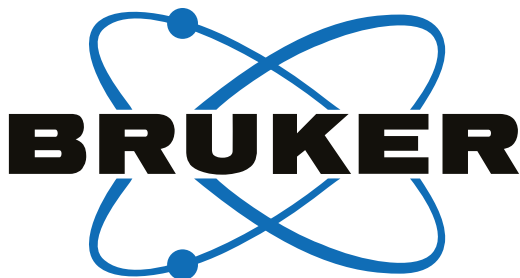
Bruker is a global manufacturer and distributor of mass spectrometers and analytical tools headquartered in Billerica, Massachusetts. Bruker and PEAK Scientific have been working in conjunction since 2009 when the NM30LA, now replaced by the Genius SQ24, was used as a nitrogen solution for Bruker instruments.

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

Product Managers and Engineers from both organizations are DEDICATED GAS SOLUTION

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

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 w/ Apollo II ESI	No Compressor	<ul style="list-style-type: none"> • Solaris XE
	Built in Compressor	<ul style="list-style-type: none"> • Horizen 24 (Genius SQ24) • Genius XE 35
compact series impact series maXis series timsTOF series w/ VIP-HESI	No Compressor	<ul style="list-style-type: none"> • Infinity 1045
	Built in Compressor	<ul style="list-style-type: none"> • Genius 3045
EVOQ TQ LCMS	No Compressor	<ul style="list-style-type: none"> • Infinity 1045
	Built in Compressor	<ul style="list-style-type: none"> • Genius 3045
ultrafleX series rapifleX series	No Compressor	<ul style="list-style-type: none"> • Precision Nitrogen Trace 250
	Built in Compressor	<ul style="list-style-type: none"> • Precision Nitrogen Trace 250 (Optional: Precision Air Comp)
TENSOR Series FT-IR	No Compressor	PG14L
	Built in Compressor	PG14L (Optional: Precision Air Comp)
EMX EPR Spectrometer	No Compressor	PG28L
	Built in Compressor	PG14L (Optional: Precision Air Comp)
AVANCE	No Compressor	i-Flow
	Built in Compressor	i-Flow*
Note: * The i-Flow Prime can be supplied with an external compressed air supply. <ul style="list-style-type: none"> • Included on Bruker Corporate Price List 		

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 SQ24	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	32 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

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

Horizen 24

DESCRIPTION

Designed to provide a premium, yet cost-effective nitrogen solution, Horizen 24 has incorporated state-of-the-art compressor technology to efficiently manage power consumption reducing energy costs and heat output without compromising on performance.

As a standalone solution delivering 24 liters per minute of high-purity nitrogen, up to 99.9%, from a compact footprint, Horizen 24 provides labs peace of mind and confidence in their LC-MS results.

Features

The most energy-efficient nitrogen generator on the market

Up to 24LPM of ultra-dry, non-methane hydrocarbon-free nitrogen at up to 99.9% purity and 116psi

55% less energy, saving power consumption*
>50% less heat, reducing your air conditioning cost*

The smallest nitrogen generator in its class, fitting easily under any lab bench

Minimized operational carbon footprint compared with cylinders and equivalent generator models

Convenient fixed annual service interval on all parts

* Benchmarked against equivalent competitor



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
Horizen 24	324 L/pm	Nitrogen	116psi /8bar	524 x 450 x 719 mm 20.6 x 17.7 x 28.3 "	LC-MS, ELSD, Small sample evaporators

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 6.1x13.5 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**]TM

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)

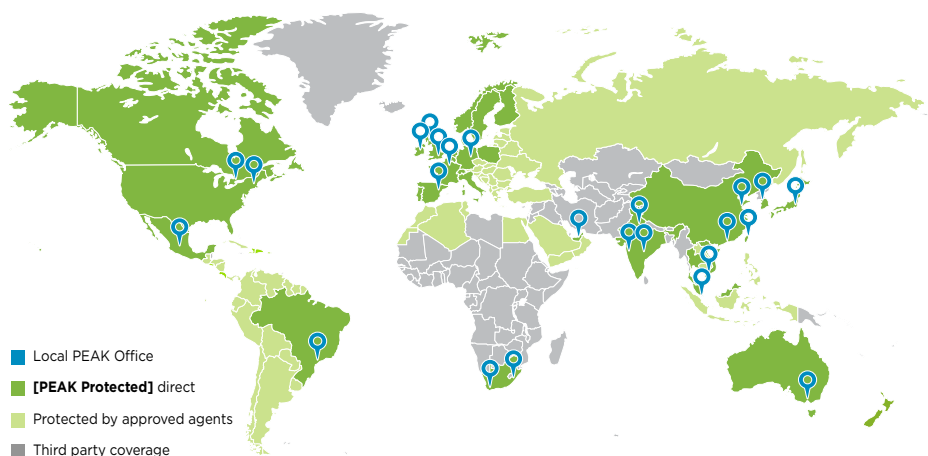
Our Brand Promise

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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