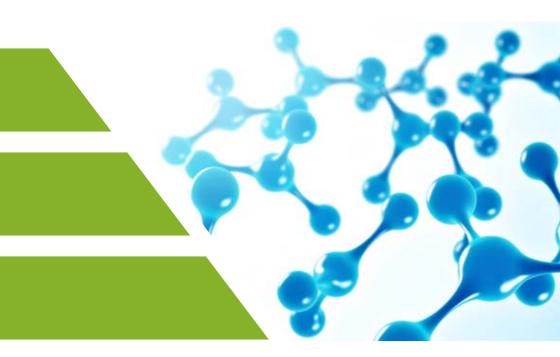
Your local gas generation partner





### **Gas Generators**

For Waters Instruments

Waters THE SCIENCE OF WHAT'S POSSIBLE.™

Discover more at www.peakscientific.com

#### 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.

#### MANUFACTURING EXCELLENCE

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.

#### PEAK AND WATERS

Waters is a global manufacturer and distributor of mass spectrometers and analytical instrumentation headquartered in Milford, Massachusetts. Waters and PEAK Scientific have been working in conjunction since the production of the NM30LA generator in 1997, the predecessor to our best-selling NM32LA generator.

This was the first example of a PEAK Scientific nitrogen generator being formally approved specifically for use with a mass spectrometer, underlining the unique relationship between PEAK and Waters. Since then, PEAK has produced several dedicated gas generator solutions for Waters applications including the Genius NM32LA, Genius XE 35 and Solaris XE.

#### DEDICATED GAS SOLUTION

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 Waters' range of LC-MS instruments.

In most cases, there is a dedicated PEAK Scientific gas generator for Waters' range of LC-MS instruments. PEAK have engineered purpose built generators, matching the most efficient operating standards of Waters' LC-MS, AP-GC and ELSD instruments.

# THE SCIENCE OF WHAT'S POSSIBLE."

### **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.

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

Our core gas generator offering to support Waters analytical instruments can be divided into two categories. Our bestselling Genius XE and Horizen 24, designed mainly for LC-MS applications, are self-contained systems featuring integrated compressors, delivering laboratory-grade nitrogen at various pressures and flow rates required by a wide variety of Waters instruments.

The Infinity XE 60 & Solaris 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**

		Peak Sc	Peak Solution		
Mass Detection	Air Requirement	Single Instrument	Two Instruments		
Acquity Qda	No compressor	Solaris XE for Waters	Infinity XE 5010		
Acquitý Řda Qda II	Built in compressor	Horizen 24 (Genius SQ24)	Genius XE 70		
Single Quads	Air Requirement				
SOD 2	No compressor	Solaris XE for Waters	Infinity XE 5010		
SQ Detector ZQ	Built in compressor	Horizen 24 (Genius SQ24)	Genius XE 70		
	No compressor	Solaris XE for Waters	Infinity XE 5010		
3100 Mass Detector	Built in compressor	Horizen 24 (Genius SQ24)	Genius XE 70		
	No compressor	Solaris XE for Waters	Infinity XE 5010		
RADIAN ASAP	Built in compressor	Horizen 24 (Genius SQ24)	Genius XE 70		
Tandem Quads	Air Requirement				
Xevo TQD-S Xevo TQD-XS Xevo TQ-MS	No compressor	Solaris XE for Waters	Infinity XE 5010		
Xevo TQ-MS Xevo TQ Absolute	Built in compressor	Genius XE35 (optional Collision Gas Add On)	Genius XE35 (optiona Collision Gas Add On		
Xevo TQD Xevo TQD-S Micro Quattro Micro API	No compressor	Solaris XE for Waters	Infinity XE 5010		
Quattro Micro GC	Built in compressor	Horizen 24 (Genius SQ24)	Genius XE 70		
Tof	Air Requirement				
Xevo G2-XS Tof Xevo G2-S Tof Xevo G2 Tof Xevo Tof	No compressor	Solaris XE for Waters	Infinity XE 5010		
	Built in compressor	Genius XE 35	Genius XE 70		
QTof	Air Requirement				
Xevo G2-XS QTof Xevo G2-S QTof Xevo G2 QTof Xevo QTof	No compressor	Solaris XE for Waters	Infinity XE 5010		
	Built in compressor	Genius XE 35	Genius XE 70		
lon Mobility	Air Requirement		1		
Vion G2-XS OTof SYNAPT G2-Si * Select Series Cyclic MS* SYNAPT G2-S * SYNAPT G2 *	No compressor	Solaris XE for Waters	Infinity XE 5010		
SYNAPT G2-S * SYNAPT G2 * SYNAPT *	Built in compressor	Genius XE35 (optional Collision Gas Add On)	Genius XE 70		
lon Sources	Air Requirement				
APGC	No compressor	Precision Nitrogen Trace 1L	2 x Precision Nitroger Trace 1L		
	Built in compressor	Precision Nitrogen Trace 1L with optional Precision Compressor			
LC Detectors	Air Requirement				
	No compressor	Solaris 10			
2424 ELSD ACQUITY ELSD 2420 ELSD	Built in compressor	Solaris 10 with optional Solaris Air Compresso			





# Genius XE Series

#### DESCRIPTION

Inspired by the success of our best-selling Genius line of nitrogen gas generators for LC-MS/MS, Genius XE Nitrogen is a cutting-edge evolution combining advanced technology with refined and robust engineering. With two models - XE 35 (up to 35 L/min) and XE 70 (up to 70 L/min) - Genius XE Nitrogen provides a premium standalone nitrogen solution for high performance LC-MS/MS and other mission-critical laboratory applications where performance and reliability are paramount.

#### Features

#### -----

Variable flow up to 70 L/min & pressure up to 116psi

Multi-Stage Purification™ producing analytical grade nitrogen gas up to 99.5% purity

2 year comprehensive manufacturer's warranty\*

Touch-screen full colour user interface for ease of operation

ECO (Electronic Compressor Optimisation™) technology for low energy consumption and compressor durability

Next-generation high performance premium compressors, engineered exclusively for Genius XE

Smaller & quieter than previous generation of Genius

On-board service scheduling and system diagnostics

Compatible with Collision Gas Add On



Product	Flow Rate	Gas Output		Size (HxWxD)	Application
Genius XE 35	35 L/min	Nitrogen	116 psi/8 bar	650 x 570 x 710 mm25.2 x 22.5 x 28''	LC-MS/MS
Genius XE 70	70 L/min	Nitrogen	116 psi/8 bar	1000 x 570 x 710 mm39.4 x 22.5 x 28"	LC-MS/MS

\* Year 2 of warranty subject to generator being serviced at end of year 1 by a PEAK-approved agent in accordance with fixed annual maintenance schedule.

# Collision Add-On

#### DESCRIPTION

The Collision Gas Add-On has been designed to serve a number of PEAK generators, and supplies Ultra High Purity Nitrogen to the collision cell at a flow of up to 200cc/min. With a set purity of 99.999%, the Collision Gas Add-On produces a high quality flow with no reduction to the output of our nitrogen generators. The Collision Gas Add-On allows labs to draw nitrogen from their PEAK generator, which removes the need for gas cylinders for UHP nitrogen.

#### Features

#### -----

Ultra High Purity - 99.999% Nitrogen, at 200cc/min.\*

Removes unsafe and environmentally unfriendly cylinders from the lab

On screen performance and alerts for generator status indication

No risk of running out of gas in middle of analysis

Compatible with the current Genius XE35, XE70, Horizen 24, Infinity XE and Solaris XE systems



\*Nitrogen generator providing main gas source to an instrument. (Genius XE35/70, Horizen 24, Infinity XE and Solaris XE systems)

Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
Collision Add-On	200 cc/min	Nitrogen	80psi	165 x 360 x 420 mm 6.5 x 14.2 x 16.5"	Single Quad LC-MS

#### 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

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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

# Solaris 10

#### DESCRIPTION

PEAK Scientific's Solaris Nitrogen generator has been developed to provide an optimal gas generation solution for ELSD or Compact Mass Spectrometers, with the goal of reducing instrument downtime and improving workflow efficiencies.

Engineered with a space-saving design, Solaris 10 can be placed on a benchtop and paired with an additional optional Solaris air compressor unit to provide air supply for labs without an in-house air supply or for those who wish to contain their gas supply in a single system.

#### Features



12 month comprehensive on-site warranty







## Solaris XE for Waters

#### DESCRIPTION

PEAK Scientific's Solaris XE nitrogen generator offers a reliable, compressor-free gas solution that can comfortably meet the demands of most mass spectrometers within Waters' portfolio of instruments. Using our tried and tested membrane technology, Solaris XE can operate with varying flow rates (up to 35L/min of high purity nitrogen), purity (up to 99.5%) and outlet pressure can be adjusted down from 116psi.

#### Features

#### -----

Nitrogen up to 35L/min, up to 116 psi and up to 99.5% purity  $% 10^{-10}$ 

Tested and approved by Waters

Compact, wall-mountable and stackable\* with Waters ACQUITY QDa, maximizing the use of valuable laboratory floor or bench space

Variable outlet flow, pressure and purity

Colour indicative LED lighting for easy system status awareness

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



\*Please ask your local sales representative for advice on supported stacking configurations.

Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
Solaris XE for Waters	35 L/min	Nitrogen	116 psi/8 bar	156 x 343 x 650 mm6.2 x 13.5 x 25.6"	Waters ACQUITY QDa Detector A list of instruments that are compatible with Solaris XE can be found on our Waters application list.

### Product Infinity XE 6010

Producing between 10-500 L/min of high purity nitrogen gas, the Infinity XE 6010 can comfortably supply multiple laboratory instruments. With a variable flow rate in relation to purity, set the flow rate you need to meet the total demands of the instruments in your lab.

- Flow rates up to 500 L/min\*
- N2 purity up to 99.5%
- Versatile solution with varying Nitrogen fl ow, pressure & purity capabilities
- In-field expansion of nitrogen capacity to meet growing lab demands
- Optional second outlet for Dry Air



Product	Flow Rate	Gas Output	Pressure	Size (HxWxD)	Application
Infinity XE 6010	up to 130 L/min	Nitrogen	135 psi	405 x 940 x 995 mm 15.9 x 37 x 39.2"	N2 supply for multiple LC-MS instruments

### **PEAK Protected**

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



### 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

### 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 or customers. With **[PEAK Protected]**, your laboratory's productivity becomes our top priority.

### Contact us today to discover more!

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For contact details of all PEAK local offices around the world, visit: **www.peakscientific.com/offices**