



The all-new **Genius XE**  
nitrogen gas generator



# When **only** **exceptional** will do

**Introducing the most advanced nitrogen gas generator for your laboratory**

Built upon decades of innovation in gas generation for the lab, Genius XE sets a new benchmark in performance and confidence. With increasingly sensitive applications and productivity demands, you can't afford to compromise on instrument gas. Featuring **Multi-Stage Purification™** and innovative ECO technology, Genius XE delivers exceptional quality of nitrogen and reliability...**When only exceptional will do.**

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

*Your local **gas generation** partner*

# Innovative Technology

## **Triplex particulate filter**

Three sequential stages of micro-particulate and coalescing filtration ensures the nitrogen gas is as clean and high purity as possible from a generator, and that you can have the greatest confidence in your analytical results with minimal interference even at high resolution.

## **AirMax™ air intake**

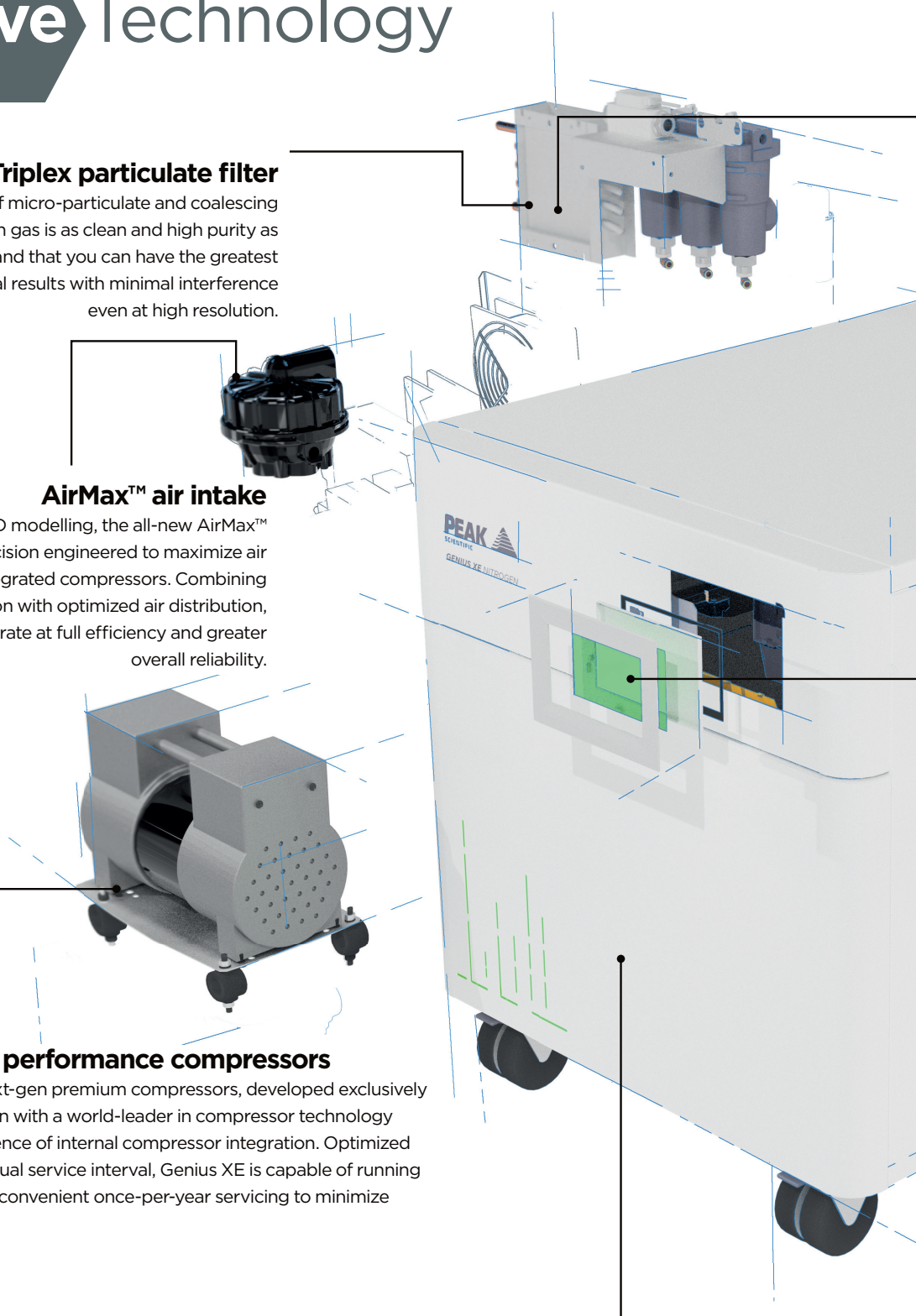
The result of advanced CFD modelling, the all-new AirMax™ (patent pending) intake is precision engineered to maximize air flow into and around the integrated compressors. Combining 1st-stage particulate filtration with optimized air distribution, this allows compressors to operate at full efficiency and greater overall reliability.

## **Next-generation high performance compressors**

At the heart of Genius XE are next-gen premium compressors, developed exclusively for Peak Scientific in collaboration with a world-leader in compressor technology and building on decades' experience of internal compressor integration. Optimized to deliver unlimited run-hour annual service interval, Genius XE is capable of running 24/7 with low running costs and convenient once-per-year servicing to minimize downtime.

## **ECO technology**

**Electronic Compressor Optimisation™ (ECO)** intelligently manages compressor activity to minimize energy consumption and maximize performance. Innovative software constantly monitors the application demand and controls each compressor independently to deliver required output and turning some off when not needed. The benefit is true on-demand generation improved operating efficiency (lower energy costs) and long-term performance and reliability as the load on the compressors is intelligently shared and balanced.



## Two-stage moisture removal

Unique reheat technology and proprietary lock-and-drain moisture removal with redundancy ensures the application is extra protected against any risk of moisture in the gas stream, delivering ultra-dry N<sub>2</sub> into your instrument.

## Advanced polymer hollow fibre nitrogen membrane technology

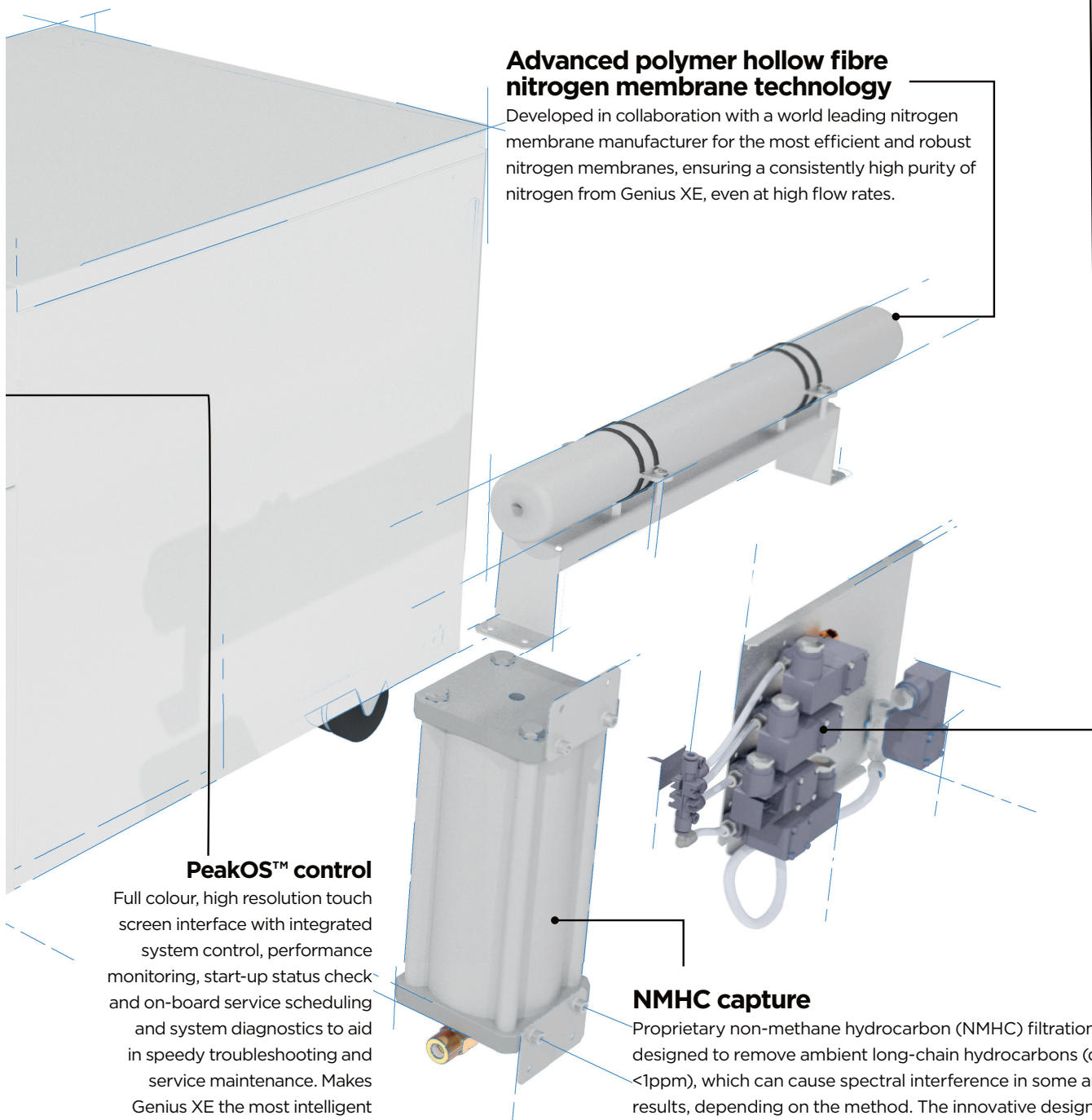
Developed in collaboration with a world leading nitrogen membrane manufacturer for the most efficient and robust nitrogen membranes, ensuring a consistently high purity of nitrogen from Genius XE, even at high flow rates.

## PeakOS™ control

Full colour, high resolution touch screen interface with integrated system control, performance monitoring, start-up status check and on-board service scheduling and system diagnostics to aid in speedy troubleshooting and service maintenance. Makes Genius XE the most intelligent and easiest to use nitrogen generator we've ever designed.

## NMHC capture

Proprietary non-methane hydrocarbon (NMHC) filtration stage designed to remove ambient long-chain hydrocarbons (down to <1ppm), which can cause spectral interference in some analytical results, depending on the method. The innovative design has been optimised for efficiency, performance and service life (annual).





# Only **Genius XE** gives you all this:

- **Multi-Stage Purification™** producing analytical grade N2 to 99.5% purity
- Variable flow rate up to 70 L/min and pressure up to 116 psi
- **ECO (Electronic Compressor Optimization™)** technology for low energy consumption and enhanced compressor performance
- **PeakOS™** touch screen interface for ease of operation
- Ultra-fast start-up. Just 30 minutes to operating purity
- Smaller & quieter than previous generation
- On-board service scheduling and system diagnostics
- 2 year comprehensive manufacturer's warranty\*

## Two models to choose from

There are two models to suit your flow requirement, Genius XE 35 (**up to a total of 35L/min**) and Genius XE 70 (**up to a total of 70L/min**), both sharing many of the unique benefits with the main differences being size, number of internal compressors (2 and 4 respectively) and of course total output flow. The XE 70 is ideally suited to serving multiple instruments, eg. 2 or even 3 mass-spectrometers from one compact footprint solution.



Genius **XE 70**

Genius **XE 35**

## **[PEAK Protected]**™

When you purchase directly from Peak Scientific you will have access to the market-leading on-site maintenance and service support that we have become renowned for around the world.

To give you on-going peace of mind, our Peak Protected range of products give you complete annual breakdown cover as well as many other benefits.

**Contact us today** to discover more!

**Web:** [www.peakscientific.com/genius](http://www.peakscientific.com/genius) **Email:** [discover@peakscientific.com](mailto:discover@peakscientific.com)

\* 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. For **full terms and conditions** visit [www.peakscientific.com/warranty-statement](http://www.peakscientific.com/warranty-statement)