

Your local *gas generation* partner



## **Solaris & Infinity XE**

Nitrogen gas generators for  
analytical laboratory applications

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

# Why choose **Solaris** or **Infinity** for your nitrogen needs?

- ▶ **High purity nitrogen gas on demand**  
Up to 99.5% purity with flow rates ranging up to 500 L/min for even the most demanding laboratory applications.
- ▶ **Simple operation and long working life**  
Easy to configure and few moving parts\* means systems are low maintenance and low noise.
- ▶ **Safe and convenient gas supply**  
Eliminate recurring costs of ordering and hazards of handling high pressure gas cylinders or dewars.
- ▶ **Advanced hollow fiber membrane module technology**  
High purity performance and long lifetime durability from the highest specification membranes.
- ▶ **Small laboratory footprint**  
Minimal footprint to save valuable lab space, with bench-top (Solaris) and free standing (Infinity XE) solutions.
- ▶ **High quality engineering**  
Designed, engineered and tested to highest standards at our UK ISO 9001 accredited manufacturing center.

\*exception being optional compressor

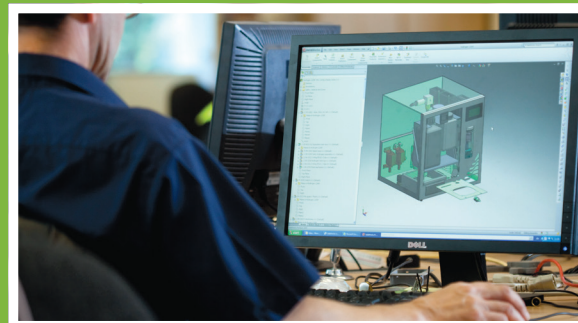
# Why PEAK Scientific

Providing your lab with a reliable source of gas at the push of a button, a PEAK gas generator takes away the hassle and inconvenience of handling cylinders in your lab, allowing you to work more efficiently. With 20 years' experience in gas generation and our unique brand promise to deliver on-site service and support, having a PEAK in your lab means you can focus on what really matters.

As we have grown to become a leader in gas generation, so has our specific expertise and experience in the analytical instrument market. With a global infrastructure including offices in over 15 countries, we are uniquely placed to deliver local and personal support wherever our customers may be. When you buy PEAK, you are buying not just technology, but the reassurance that comes from having a truly local partner in your lab.

## Exceptional Expertise

- Over 32,000 generators sold globally over the past 20 years.
- Approved and validated gas solutions with most major LC-MS manufacturers including Waters, Sciex, Agilent, Thermo-Fisher, Shimadzu and Bruker.
- Many experienced staff with over a decade of service and with some over 20 years - we know our business!



## Exceptional Service

- Over 100 employees in 25 countries delivering direct on-site support in your local language.
- Rapid-response 72 hour guaranteed on-site engineer coverage globally (48hrs or less in many countries).



## Exceptional Quality

- Modern manufacturing with industry-leading quality control.
- Generators designed, engineered and hand-built in UK to ISO 9001 standards.
- Rigorous certification and compliance testing in accordance with CSA, CE, FCC, and EMC.



## ELSD and Compact MS

Solaris 10 is a compact, convenient nitrogen source for applications with lower flow demands, such as ELSD and Compact Mass Spectrometers.

### Solaris 10

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

High purity nitrogen for ELSD or Compact Mass Spectrometers

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

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

## Bench-top solution for your LC-MS

The Solaris XE generator can effortlessly provide laboratory grade nitrogen for labs with 1-2 Mass Spectrometers.

### Solaris XE

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

The Solaris XE range has been engineered to provide nitrogen to laboratories that utilize an external source of compressed air, which meets a minimum quality grade of ISO 8573-1:2010 Class 1.4.1, and its compact, space-saving chassis allows it to be placed on a benchtop, on a wall or beneath an instrument\* taking up minimal space in the lab.



#### 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 maximizing the use of valuable laboratory floor or bench space

Color 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

# Multiple instrument N2 solution for your whole laboratory

For larger labs with three or more mass spectrometers in the lab, or more demanding applications requiring higher flow and/or high purity (up to 99.5%) our Infinity XE 60 series, with flow rates up to 500 L/min, are the ideal solution.

## Infinity XE

Offering labs a cost-effective alternative to cylinders in a compact, space saving nitrogen solution, the Infinity XE 60's Intelligent Membrane Management (IMM) uniquely optimizes air consumption depending on set purity, inlet pressure/flow and nitrogen demand. With variable N2 purities (95-99.5%), XE 60 can meet the demands of numerous applications such as ELSD, NMR, FT/MS, Sample Evaporators, as well as LC-MS and should your lab demands grow over time, Infinity XE 60 can have its nitrogen output increased on-site up to a maximum of 500 L/min all within the same original footprint.



### Features

- Flow rates ranging from 10-500 L/min\*
- N2 purity up to 99.5%
- In-field expansion of nitrogen capacity.
- Optional second outlet for Dry Air
- Intelligent Membrane Management (IMM) optimizes compressed air requirement based on gas consumption
- IMM reduces overall compressor run time and energy consumption, reducing carbon footprint
- Fully comprehensive 2-Year Warranty\*\*

\* Dependent on inlet pressure, inlet/outlet flow & Nitrogen purity setting

\*\* subject to meeting 2 year warranty conditions

[www.peakscientific.com/warranty-statement/](http://www.peakscientific.com/warranty-statement/)

## Installation and compressed air supply

With global coverage and decades of expertise in gas generation in the lab, we can provide direct support, advice and guidance on specification and installation of your Solaris XE or Infinity XE N2 system. Please talk to your local PEAK Scientific representative for assistance in selection and installation in your facility – that’s where we excel.

As Solaris XE and Infinity XE do not contain internal air compressors, a supply of clean dry compressed air (conforming to ISO 8573-1:2010 Class 1.4.1) is required to operate the system. This may be available in your laboratory already, but if not, we can assist in supply or recommendations to install an external compressed air system suitable for your generator. Normally this would be located elsewhere outside the laboratory to minimize noise and vibration.

## Taking care of your compressor

PEAK’s innovative Intelligent Membrane Management (IMM) technology in the Infinity XE 60 series optimizes air demand and flow from your compressor. Minimizing wear and tear on your external compressor means reduced maintenance bills, longer life of the compressor and less disruption to your lab from unplanned compressor downtime. Power consumption is also optimized by IMM as the compressor is not working any harder than it needs to, keeping your energy bills down and reducing your lab’s carbon footprint.

IMM is just one more way PEAK Scientific can reduce downtime in your lab and in turn keep your analysis running, sustainably.

## Solaris Series

### Technical Specifications

	Solaris 10	Solaris XE
Max Flow Rate*	up to 10 L/min	up to 35 L/min
Purity N <sub>2</sub> *	95-99.5%*	95-99.5%*
Max Outlet Pressure	up to 100 psi / 6.9 bar (user adjustable)	up to 116 psi / 8 bar (user adjustable)
Inlet Air Quality Requirement	ISO8573 - 1:2010 (1:4:1)	
Inlet Air Pressure Requirement	80 psi/ 5.5 bar - 130 psi/ 8.9 bar	80 psi/5.5 bar - 145 psi/10 bar
Dimensions H x W x D	156 x 416 x 540 mm / 6.1 x 16.4 x 21.3"	156 x 343 x 650 mm / 6.1 x 13.5 x 25.6"
Ordering Information	65-0001	3300671

## Solaris Compressor

### Technical Specifications

	110v	230v
Ordering Information	65-0004	65-0003

## Infinity XE Series

### Technical Specifications

	6010	6020	6030	6040
Flow Rate*	up to 130 L/min	up to 260 L/min	up to 390 L/min	up to 500 L/min
Purity N <sub>2</sub> *	up to 99.5%			
Max Outlet Pressure*	135 psi			
Inlet Air Quality Requirement	ISO 8573-1:2010 (1:4:1)			
Inlet Air Pressure Requirement*	60 psi/4.1 bar - 145 psi/ 10 bar			
Dimensions H x W x D	995 x 405 x 940 x mm / 39.2 x 15.9 x 37"			
<b>Ordering Information</b>				
Part Number (Nitrogen Only)	3303147	3303148	3303149	3303150
Part Number (Nitrogen & Dry Air)	3303147-AD	3303148-AD	3303149-AD	3303150-AD

\*Dependant on inlet pressure, inlet/outlet flow and inlet air quality

**Contact us today** to discover more!

#### North America

**Tel:** +1 866 647 1649

#### China

**Tel:** +86 21 5079 1190

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

#### Europe

**Tel:** +44 (0)141 812 8100

#### India

**Tel:** +91 40 2780 0663

**Email:** [discover@peakscientific.com](mailto:discover@peakscientific.com)