PEAK SCIENTIFIC

*Your local **gas generation** partner*

Intura

Hydrogen, Nitrogen and Zero Air
gas generators for GC

Designed for **GC.** Made for **you.**

peakscientific.com/intura

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The dedicated gas solution for GC and GC-MS, Intura, has been meticulously developed by PEAK Scientific, the world leader in laboratory instrument gas. Delivering best value, the most reliable solutions and supporting the highest sensitivity & accuracy, Intura is for GC users everywhere.

With Intura, look forward to:

- Safe, convenient and consistent GC carrier and detector gas
- H_2, N_2 & Zero Air models to meet your GC needs
- Adjustable pressure and multiple flow options
- Low ongoing cost of ownership
- Gas generators tested and validated to highest international standards
- Removing hassle, unpredictable cost and supply risk of cylinders
- Sustainable gas supply, low power consumption and low heat output
- Low noise, especially made for use in laboratory environment
- 12 month comprehensive warranty as standard, with option to extend up to 5 years

Intura: Where quality meets innovation

As the world's number one for laboratory gas generation with over 25 years of experience and solutions approved and validated by the leading instrument manufacturers, PEAK Scientific's team of gas generation experts have delivered yet another set of engineering advances with Intura.

Using proprietary technologies developed by PEAK's world-class R&D team, Intura incorporates new approaches to gas purification along with tried and tested components from our LC-MS range to enhance the performance and reliability of the Intura range. Providing the best quality GC carrier and detector gas supply we have ever produced, Intura is the cutting edge of lab gas supply for GC.

Value in your **workflow,** value to the **planet**

Bringing convenience to your workflow by eliminating the risk of cylinder supply interruptions, Intura delivers a reliable, round-the-clock gas supply with a low lifetime cost, delivering tangible value to your lab. Furthermore, Intura's extremely low power consumption and heat output reduce operational carbon emission and the reduced weight of the generators aid in reducing carbon emissions from transportation, minimizing overall carbon emissions from lab operations - day in, day out.

Intura Hydrogen

With flow rates ranging from **100 to 1500 cc/min**, Intura Hydrogen is the cornerstone of the Intura range. This benchtop solution uses electrolysis to separate oxygen and hydrogen from deionized water using tried and tested PEM cell technology, providing a reliable and sustainable source of carrier and detector gas for GC and GC-MS.

Intura Nitrogen

With flow rate models ranging from **250 to 1000 cc/min**, Intura Nitrogen produces ultra-high-purity N_2 from compressed air using an optimized pressure swing adsorption process to eliminate O_2, CO_2 and other impurities to deliver the highest purity of nitrogen.

Intura Nitrogen & Zero Air

With flow rate models ranging from **250 to 1000 cc/min** Nitrogen and up to **3500 cc/min** Zero Air, Intura N_2|ZA produces ultra-high-purity N_2 with an additional supply of clean, dry, hydrocarbon-free air. The optimized pressure swing adsorption process eliminates O_2, CO_2 and other impurities from the compressed air supply.

Intura Zero Air

With flow rate models ranging from **1500 to 15000 cc/min**, Intura ZA supplies clean, dry, hydrocarbon free air to be used as flame support gas for GC. Intura ZA benefits from a compact design with internal air compressor, minimizing design minimizing the total footprint required for GC gas supply.

Safety first

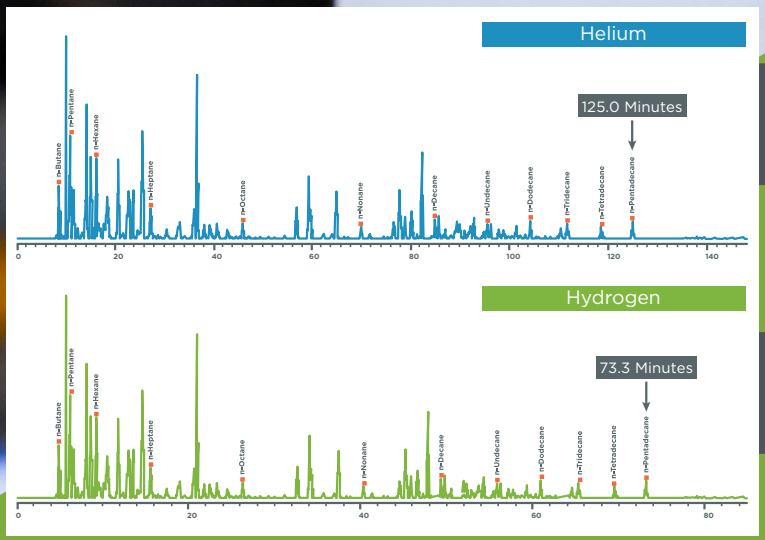
Intura's low internal gas volume, multiple fail-safe features and full suite of international safety and compliance marks ensure that you can rest assured that Intura is the safest method of hydrogen supply in the laboratory.

Constant internal pressure monitoring and an ASME-rated pressure relief valve ensures that Intura will detect any leak and immediately stop production of gas to prevent any hazard. In addition, Intura has undergone EN-60079-2 compliant safety testing to confirm that there is no risk of fire or explosion in the event of a full system failure, ensuring the safety of you, your colleagues and your laboratory.

Pure **Performance**

Intura is packed full of the most technologically advanced features to purify gas from the state-of-the-art PEM cell producing high purity Hydrogen at 99.99999%, to the Pressure Swing Adsorption dryer filtration to remove moisture. Intura Nitrogen utilizes the patent pending AirMax™ intake alongside the, unique to PEAK, Multi-Stage Purification providing the highest purity Nitrogen at 99.9995%.

With Intura Zero Air removing both water through intelligent moisture removal and hydrocarbons through PEAK's proprietary CAT technology, the entire Intura series has been independently tested and verified for purity by the National Physical Laboratory, bringing additional confidence to you and your GC results



Carrier run time:
125 minutes **He**

Carrier gas run times up to **40% faster with Hydrogen** when compared with Helium.

Carrier run time:
74 minutes H_2

Why **switch carrier gas**?

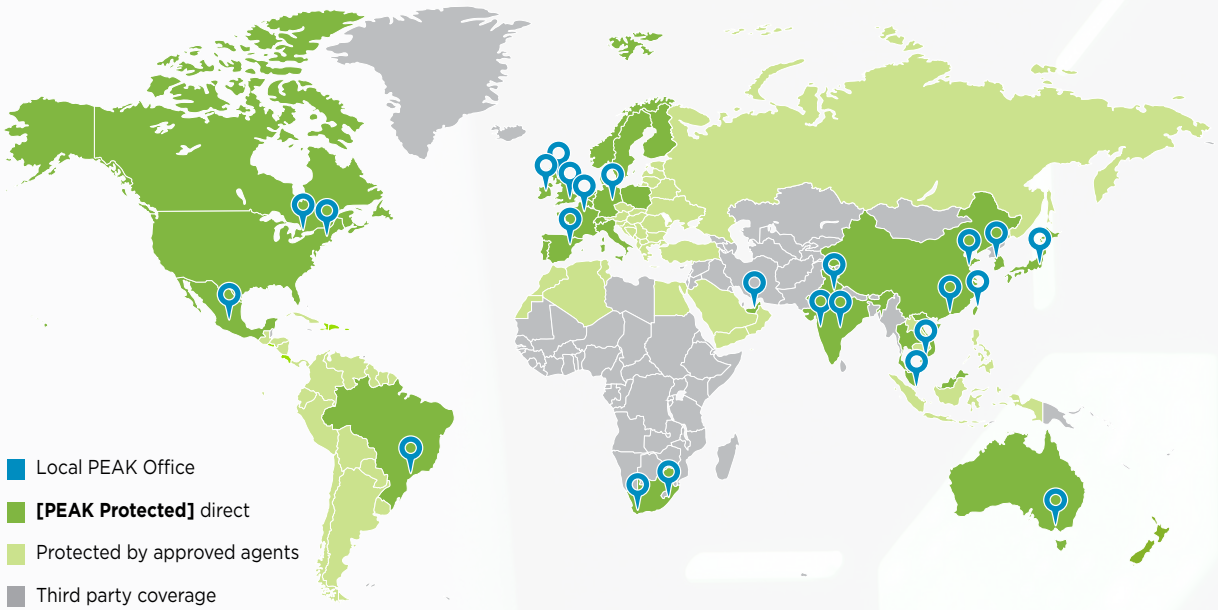
As helium costs increase and availability becomes more uncertain. A switch to hydrogen carrier gas allows you to take control of your gas supply, reduce costs and improve efficiency.

It's all about the **method**

Switching carrier gas used to be a daunting thought for GC users, however, with the leading instrument vendors offering simple conversion tools and apparatus to support the change, it's never been a better time to upgrade your gas supply from helium cylinders to an on demand gas generator. For labs operating under strict methods, you can find a list of all methods which have been used and approved for use with Hydrogen or Nitrogen carrier gas here:

Where we **protect**

All Peak on-site maintenance support is delivered by a Peak certified field service engineer, no matter where you are located. Having a dedicated network of fully certified engineers spanning across over 25 countries in every continent allows us to provide an industry-leading rapid response service to our customers. With **[Peak Protected]**, your laboratory's productivity becomes our top priority.



Intura

Technical Specifications	Intura Hydrogen	Intura Nitrogen	Intura Nitrogen & Zero Air	Intura Zero Air
Flow Rate	up to 1500 cc/min	up to 1000 cc/min	Up to 1000cc/min N2, Up to 3500cc/min Zero Air	up to 15000 cc/min
Purity	99.99999%*	99.9995%**	**N_2 purity** 99.9995%**** **ZA purity** (CH_4) <0.05ppm***	Purity (CH_4) <0.05ppm***
Output Pressure	175psi / 12.1 bar	100 psi / 6.9bar	100 psi / 6.9bar	100 psi / 6.9bar
Water Purity Requirement	<0.1 µS/cm OR >10 MΩ.cm ASTM Type II or approved DI purifier	N/A	N/A	N/A

Ordering Information	
Part Number	Use link below to enquire for Part Numbers
Annual Service	**visit:** www.peakscientific.com/contact
Complete Maintenance Plan	

*Phthalate & BHT free | **CO / NOx / SOx / Phthalate free | ***NOx / SOx / Phthalate free | **** CO / NOx / SOx / Phthalate free, <0.05ppmCH_4, <10ppm CO_2

Contact us today to discover more!

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