

Your local *gas generation* partner



## i-Flow Select - **Nitrogen Skid** System

Gas generation solutions for food **processing** & **packaging** industries

# Key Features

- › **All-in-one solution** - A complete nitrogen generation system, including air filtration, piping, tank & generator - all mounted on a compact, convenient & pallet sized metal skid.
- › **Economical & sustainable** - A cost-effective solution that completely eliminates the need for ongoing purchases of bulk liquid or nitrogen gas supplies.
- › **Compact & portable** - The i-Flow Select nitrogen skid is a compact solution with fixed footprint, designed for easy installation, maintenance & can be moved retrospectively, as required.
- › **Energy saving technology** - An innovative 'Standby-mode' ensures the lowest running costs by automatically managing output, based on your daily demands.
- › **Food grade industry compliance** - Independently tested & verified to exceed the standards of EIGA, EC Food Grade, JECFA & US FDA (CFR Title 21).
- › **Convenient & safe** - No more deliveries, handling or storage of hazardous highly pressurized gas cylinders or liquid micro-bulk tanks.
- › **High quality engineering** - Manufactured & assembled in our ISO 9001 certified facility, the i-Flow nitrogen skid is extremely robust & requires very little daily supervision or ongoing maintenance.
- › **Bypass safeguard** - i-Flow Select built-in gas failsafe system, PurityGuard™, ensures only the highest quality N2 is delivered to your application



# A complete nitrogen gas solution for food processing & packaging

The i-Flow Select nitrogen generation skid system is a complete, all-in-one nitrogen supply solution, capable of producing a continuous & on-demand volume of high-quality food grade nitrogen gas, for use within the food & beverage processing and packaging industry.

Incorporating the latest air filtration & gas purification technologies, all equipment is conveniently assembled onto a compact & portable metal skid plate. Its fixed footprint and simple plug & play design not only allows for greater installation ease, but also the flexibility to move or relocate the system within your facility, to accommodate future growth in production lines or any changes in infrastructure.

With over two decades of experience in designing, manufacturing & supporting gas generation systems, Peak is firmly established as an industry leading nitrogen solutions specialist. The i-Flow nitrogen generator represents the culmination of Peak's technological expertise & our range of i-Flow nitrogen skids offer a streamlined, unified & complete solution - compact, cost effective, energy efficient, portable & robust.



Crisps and  
dried snacks



Salads and  
fresh fruit



Cooked meats  
and ready meals



Note: Peak understands no two customer facilities are the same. So should our i-Flow Select Nitrogen skid solutions not be suitable for your needs, Peak will be happy to provide a fully bespoke consultation, design & project management service, in line with your unique facility requirements.

# Typical nitrogen skid system

Designed with cost efficiency & sustainable operations in mind, the i-Flow Select nitrogen skid system incorporates everything needed to generate high quality, food grade nitrogen gas on-site, from a compressed air supply. Also, its compact footprint, flexible portability and plug & play design means it is hassle-free to install, maintain & relocate as your facility infrastructure evolves. Furthermore, i-Flow Select's modular design means you can always add more capacity as your operations expand over time.





## i-Flow 6000 Series Nitrogen Generator

i-Flow is a modular & expandable PSA based nitrogen gas generator, capable of supplying high quality, food grade nitrogen gas at a wide range of configurable flow rates, purities and pressures. Whatever your application needs, i-Flow can deliver.



## Air Treatment

Peak air dryers & activated carbon towers offer the ideal combination of compressed air treatment for nitrogen generation. These robustly built systems are energy efficient, easy to maintain & most importantly, reliable - only the best technology is incorporated on our i-Flow Select nitrogen skids.



## Nitrogen Process Tank

Sized according to skid model & your system demands, the nitrogen process tank helps to smooth out the flow of gas produced by i-Flow's pressure swing adsorption (PSA) cycles. Peak ensures wherever you are in the world, these tanks will meet all necessary requirements of local certification, legislation & build standards.



## Filtration & Condensate Drainage

Working with compressed air requires effective filtration & control of accumulated condensate, which often contains dirt & oil. i-Flow Select nitrogen skids incorporate a robust set of pre & post filters, as well as a number of automated condensate drainage systems. Combined these ensure only the cleanest, driest & highest quality of nitrogen gas is produced, further helping to protect your application.

# Bulk supply vs On-site generation

Beyond the highly variable costs of purchasing nitrogen to meet daily production requirements, traditional bulk supply, via gas cylinders or liquid micro-bulk tanks, also comes with a host of hidden longer-term costs. Furthermore, bulk supply creates an unnecessary challenge for supply security & numerous hazards that not only impact on site safety, but also your company's bottom line.

## Hidden costs

- Gas cylinder or liquid tank rental & delivery charges
- Bulk liquid storage, planning permission, installation, rental & upkeep;
- Multi-year contracts, with bi-annual price rises & long notice periods

## Logistics & safety

- Frequent hazardous truck deliveries to your facility
- Highly pressurized storage, with risk of leaks or explosive decompression
- Heavy gas cylinder pallets & liquid bulk tanks, that require manual handling

## Product losses & wastage

- Unpredictable delivery timescales & the risk of running out
- Frequent requirement to monitor & switch out, sometimes mid-production
- 10% of gas in cylinders is unusable & gets returned to supplier
- 20% of liquid bulk supplies lost due to frequent 'off-gassing'
- Production downtime = missed deadlines = lost revenue

## Why buy bulk nitrogen gas when you can make your own?



**Continuous supply**  
Increased efficiencies, maximum productivity and minimum downtime



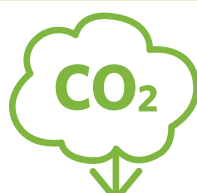
**Increased safety**  
No need for pressurized gas storage so safer than bulk delivery options



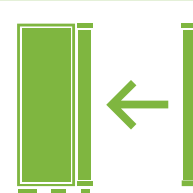
**Less wastage**  
Consistent and reliable supply means fewer missed deadlines or product defects



**Reduce costs**  
No more equipment rental, long contracts or re-supply ordering



**Lower carbon footprint**  
Reduce environmental costs by eliminating trucking of cylinders to your site



**Compact & Portable**  
Future-proof N2 system that can scaled up to meet growth in demand



# Why Peak Gas Generation?

## Global leader

Peak is the leading global manufacturer of nitrogen generators, with nearly two decades of experience creating gas generation systems.



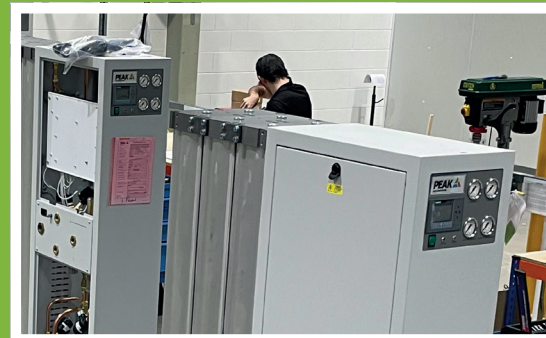
## Turnkey solutions

Our team of highly experienced consultants are experts in designing turnkey solutions that perfectly meet company demands and business needs.



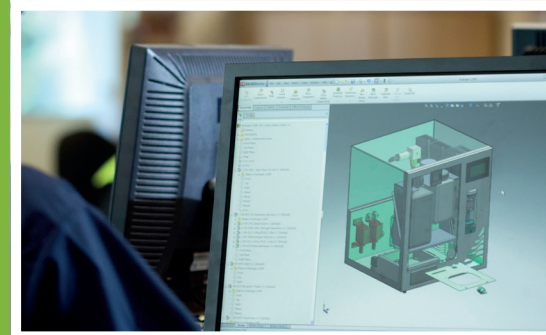
## Expertise and support

Our vast industry and technological expertise, coupled with world-class aftercare support means we define the benchmark for customer service, innovation, quality and product reliability.



## Project management

Our project teams can manage every stage of the process, through initial consultation, system design, procurement, installation, commissioning and ensure you are kept fully informed at each step.



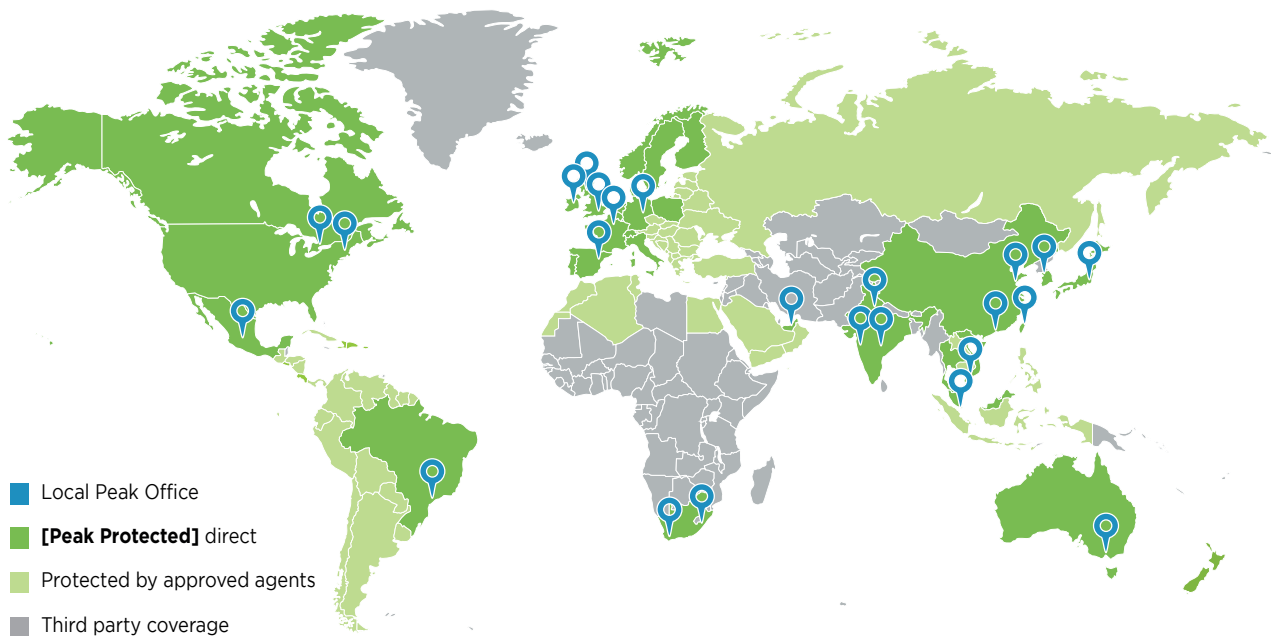
## Global partnerships

Together with our industry leading partners in air compression & filtration technologies, we offer the best and most diverse mix of technological solutions available on the market.



# Local service on a global scale

Peak has a large team of highly experienced direct Field Service Engineers & a global network of trained, certified & approved partners, located in over 20 countries in every continent across the globe. This further highlights our commitment to providing local sales & service support to customers worldwide. Coupled with industry-leading service response times, Peak Gas Generation can demonstrate that your company's productivity is our top priority.



**Contact us today** to discover more!

## North America

**Tel:** +1 866 647 1649

## China

**Tel:** +86 21 5079 1190

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

## UK & Europe

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

## India

**Tel:** 1800 270 0946

**Email:** [contact@peakgas.com](mailto:contact@peakgas.com)