

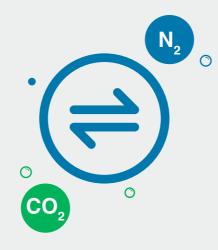
Expert on-site N₂ solutions for breweries

For beer, any contact with oxygen can lead to quality issues. That is why an inert gas is used to move beer between vessels and to blanketing tanks in order to control the conditioning stage. When kegs are cleaned between use, they are often filled with nitrogen.

Why breweries should switch from CO₂ to N₂

Both N_2 and CO_2 are inert gases used to flush, purge, infuse and package beer. However, for many processes, CO_2 can be replaced with nitrogen. In fact, N_2 is the preferred solution, except for carbonation requirements. Some breweries prefer N_2 over CO_2 to nitrogenate their beer, as it creates a smoother texture with fine bubbles. In addition, as CO_2 is highly soluble in beer, it could introduce excess carbonation.

From a business point of view, nitrogen can offer huge cost savings as it is much less expensive than CO_2 and it is not subject to CO_2 's volatile pricing. In addition, CO_2 tends to experience supply chain issues, leaving breweries without the inert gas they need. An on-site nitrogen generator eliminates this production roadblock.



N₂ requirements of breweries

Because of the importance of nitrogen and its multipurpose use throughout the production and packaging process, breweries have a specific set of N_a requirements:

- Food-grade nitrogen: Breweries must follow European and global standards for food-grade nitrogen to prevent any oxygen contamination and the loss of entire batches of beer.
- Flexibility: Any brewery nitrogen solution must meet the demands of all its N₂ applications, from blanketing and purging to packaging. It must also cater to the needs of different sizes of breweries, from large operations to craft breweries.
- Sustainable production: Sustainability has become a key condition that nitrogen solutions must also meet.
- Reliability: Because N₂ plays a key role in the brewing and packaging process, the nitrogen solution must be absolutely reliable in performance, quality and purity.
- Cost reduction: Margins are typically tight in the brewery business. The right N₂ solution will contribute to keeping operational costs in check.

On-site nitrogen generation – the preferred solution

Many breweries still purchase their nitrogen – even though generating your N₂ on-site offers more advantages. Here are just four:



Greater cost-efficiency saves you money



Eliminating bottle or liquid deliveries reduces your environmental footprint



Take charge of your own nitrogen supply



Less hassle by removing supply logistics

The right N₂ solution for every brewery

When it comes to breweries, one size does not fit all. Pneumatech knows that the realities of a large production facility are much different from the requirements of a small craft brewery. That is why we don't offer a uniform brewery solution that would work for only a few. Fortunately, our product range is extensive and flexible, allowing us to present every brewery with a solution that meets its specific needs.



PPNG HE for large breweries

The PPNG HE is Pneumatech's premium high-flow PSA nitrogen generator, giving breweries best-in-class performance, efficiency, and purity:

- The right nitrogen: The PPNG HE can generate food-grade nitrogen with a purity between 99.5% and 99.999%.
- Cost savings: The PPNG HE offers best-in-class efficiency to keep energy costs to a minimum.
- Sustainability: Producing N₂ on-site eliminates delivery transportation emissions. The PPNG HE's energy efficiency also contributes to a greener production.
- Long lifetime: Thanks to its robust build and a host of protective features, the PPNG HE has a long lifetime. Its CMS will last at least 15 years at full load.
- Outdoor installation: The PPNG HE doesn't take up indoor floor space that might not be available. Its robust design allows for outdoor installation in temperatures down to -10°C/14°F.

PMNG for craft breweries

The PMNG is the quiet, compact and convenient membrane generator that offers the nitrogen quality, purity and reliability craft breweries need:

- Quality and purity: The PMNG can generate food-grade nitrogen with a purity up to 99.5%.
- Cost-efficient and sustainable: The PMNG is 35% more efficient than other membrane generators. That means lower energy use, reduced operational costs, and a smaller environmental impact.
- Superior reliability: The PMNG uses membrane technology, a very simple, reliable and continuous nitrogen production method.
- Quiet and compact: The PMNG is as silent as it is compact, making it perfect for installation and operation at the point of use.
- A complete solution: The PMNG requires no additional filters, vessels or other parts. It is ready to go the minute it is connected to a compressor.
- Ease of use: Operation, including purity selection, is very simple.



More than just a superior product

Pneumatech offers you more than "just" the best nitrogen generator on the market. We can also provide food-grade compressed air and process filters.



Expert advice and support

Contact us with the details about your application and its requirements, such as your nitrogen usage or the size of generator you need. Our experts will put together the best on-site solution for you. If you don't have that information or need help, they are ready to help you through the specification process.





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