

nano



Nitrogen Generation Systems for Breweries

**Experts in
On-Site Nitrogen
Generation**





Brewers fight the same headaches every day, oxidation, short shelf life, CO₂ burn, and packaging issues that steal time, flavor, and money.

...We're here to help you take control.



"Adding a nitrogen generator to our brewery has been a game-changer.

It's given us more control, better beer stability, and one less logistical headache, which for a small brewery is huge."

***Plant Engineer -
Microbrewery, Midwest USA***



The Oxygen Problem

Oxygen: The Enemy of Freshness, Flavor & Stability

For breweries, oxygen is the enemy of everything that makes your beer unique. Every transfer, dry-hop, and packaging step creates opportunities for oxygen to sneak in. Even careful handling can't stop dissolved oxygen (DO) from creeping up.

Why does this matter?

Hop aroma disappears:

Oxygen dulls those bright, juicy, expressive notes.

Flavor stability drops:

Malt sweetness turns stale, bitterness becomes sharper and harsher.

Shelf life shortens:

Your beer loses its freshness long before it reaches the taproom.

CO₂ use increases:

Brewers often compensate with extra carbonation, driving up gas consumption.

The Consequences

Shorter shelf life.

Higher production costs.

Compromised quality.

Damage to brand reputation.





Why Nitrogen is the Answer

Nitrogen: The Brewer's Best Defense Against Oxygen

Nitrogen is inert, flavor-neutral, and won't mess with your carbonation or mouth feel. It simply creates a safe, oxygen-free environment wherever your beer needs it.

Your Payoff with Nitrogen

- Longer shelf Life
- Freshness protected
- Lower CO₂ usage
- Process you can trust

Where Brewers Use Nitrogen:



Line & Vessel Purging

Clears air from hoses before transfers.



Sparging & Packaging

Reduces dissolved oxygen and lowers TPO for longer shelf life.



Tank Blanketing

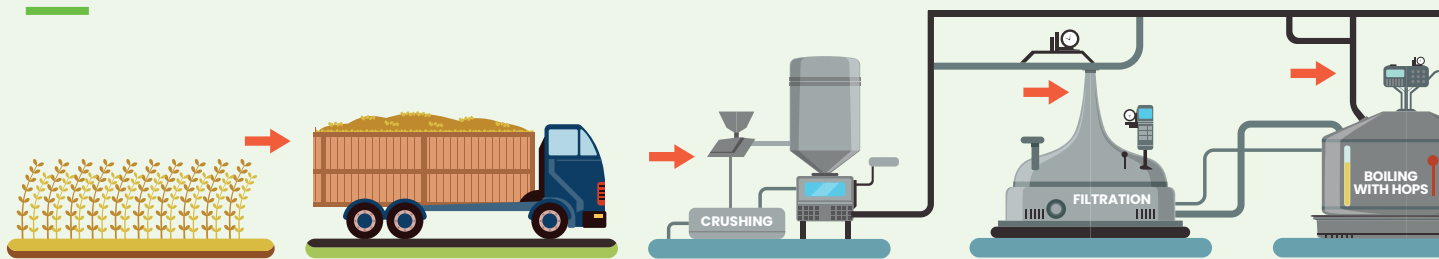
Protects beer during conditioning and storage.



Pneumatic Transfers

Moves beer gently without introducing oxygen.

The Brewing Process



Where Nitrogen Supports the Brewing Process

Nitrogen supports key brewing stages, from purging tanks to protecting product quality during transfer and packaging. This diagram shows where on-site nitrogen generation will boost your efficiency, consistency, and flavor stability.

N₂ Pressure Transfer

Less soluble than CO₂



The Hidden Cost of Delivered Gas

Why Gas Deliveries Isn't the Right Fit for Breweries

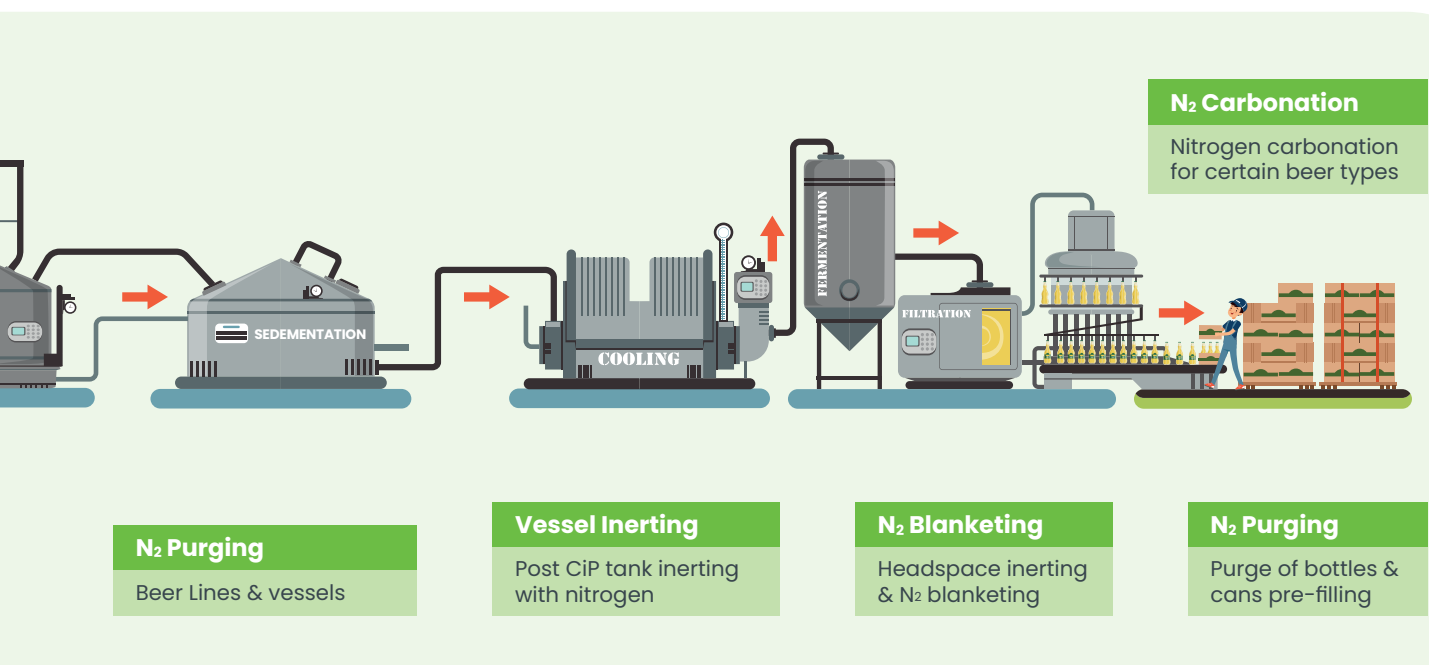
Cylinders and bulk tanks seem easy, but they create hidden costs and headaches:

Delivery Delays: Missed drops mean lost brew days.

Unpredictable Costs: Rentals, fees, and price spikes stack up fast.

Not Sustainable: Trucked-in gas leaves a heavy carbon footprint.

On-site generation gives you control, predictable costs, and a greener footprint, while protecting your beer.





From small microbreweries to high-volume producers, we've got you covered.

Low Capacity, High Efficiency

Perfect for small breweries, pilot systems, taprooms, and specialty batches.

- Plug and play design
- Ideal for tank blanketing, purging, and small transfer needs
- Compact, space-efficient design

The easiest way to start generating nitrogen in-house.



Modular, Flexible & Built to Grow

Designed for breweries needing reliable supply with the ability to scale production.

- Modular platforms expand as demand increases
- Rock solid purity for packaging & DO sensitive processes
- Perfect balance of performance + efficiency

Start with what you need today and scale effortlessly as your production expands.



High Capacity for High Output Breweries

Engineered for large breweries with demanding nitrogen usage.

- High flows for canning, bottling, kegging & high speed lines
- Built for continuous duty and heavy workflow
- Ideal replacement for bulk liquid deliveries

The unmatched power solution for breweries where uptime and precision matter.





All-in-One Solutions for Fast, Easy Integration

Delivered as a complete, pre-assembled package, our skid-mounted systems streamline installation and provide your brewery with dependable, high-purity nitrogen from day one.



Why Breweries Choose nano for On-Site Nitrogen

Control Your Process

Generate nitrogen on demand, no more waiting on gas deliveries or adjusting operations around supply.

Protect Quality at Every Stage

From purging lines to protecting aroma and flavor during transfers, nano systems help reduce DO and stabilize product quality.

Reduce CO₂ Consumption

Nitrogen does the heavy lifting for blanketing and purging, so breweries rely less on CO₂.

Lower Operating Costs

No rental fees, no delivery charges, no surprises. Just predictable utility based cost.

Sustainably Designed

Cut your carbon footprint by eliminating trucked in gas and reducing CO₂ dependence.



Experience.
Customer.
Service.



nano-purification solutions
www.nano-purification.com

Headquarters

United States

Charlotte, North Carolina
Phone: +1 704 897 2182
Email: support@airandgassolutions.com

United States

Maryville, Tennessee
Phone: +1 704 897 2182
Email: support@airandgassolutions.com

Canada

St. Catharines, Ontario
Phone: +1 905 684 6266
Email: canadasupport@airandgassolutions.com

Singapore

Singapore
Phone: +65 6748 7988
Email: support.asia@nano-purification.com

United Kingdom

Gateshead, United Kingdom
Phone: +44 (0) 191 497 7700
Email: sales_uk@nano-purification.com

