

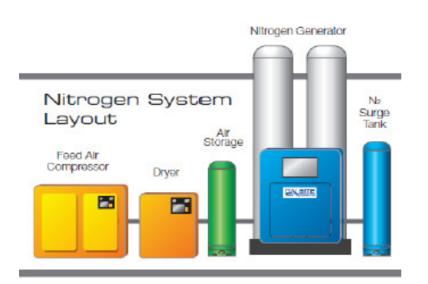
On Site N₂ generation

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Nitrogen Generators

On-Site systems use either PSA (Pressure Swing Adsorption) or membrane technology to generate gas (Note that is AD-sorption, not AB-sorption. Adsorption is the physical process of separating molecules of gas from each other, while absorption is a chemical process)





The Process

Compressed air is used to pressurize a vessel, filled with either carbon or zeolite (CMS), which separates molecules by physical composition or structure.

By forcing air down the fibre, the smaller O2 molecules escape and the N2 molecules are captured at the other end. The air in the membrane is usually heated to excite the molecules and increase the chance that they will permeate through the holes.

Pressure is released to draw off the O_2 or N_2 molecules which are collected in a tank. A pressure release valve vents the captured molecules of the unwanted gases into the air, where they immediately combine back to ambient percentages. Upon saturation the first sieve bed releases the O_2 while the second sieve bed starts the process over again



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Features and Benefits

•	Convenient	Easy to install and maintain with an unlimited supply of N2
•	Touch Screen control	Precision system control for purity level, troubleshooting diagnosis, maintenance schedules and operations diagrams
•	Cost Savings	Produce your won gaseous nitrogen for a fraction of purchasing cylinders
•	PFX	Up to 3 different purity levels from the same machine
•	Fast Payback	Systems average less than 12 months ROI. No delivery fees tank rental, long term contracts or price increase
•	Low Operation Cost	Low Air-to-nitrogen ratio and limited maintenance
•	Expandable	Take advantage of our equipment expansion /return customer program
•	Fully Automated	Nitrogen production begins when downstream demand is sensed
•	Reliable	System operating over 20 years on some of the most remote locations in the world
•	Lease/ Rental Option	Write off the cost of your generator as an operating expense, rather than using capital
•	Flexible	Replace or augment your current liquid nitrogen system

Applications

- HRSG Capping
- Pipe line Operations
- Leak Checkings
- Chemical Plants
- Fuel Tanks
- Electronic Manufacturing
- Selective Solder

- Brazing
- Waste Water Treatment
- MAP Packaging
- Curing
- Heat Treatment
- Laser Operatives
- Laboratories