

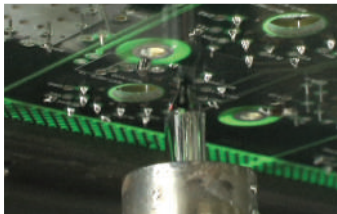
# Purity, Pressure, Flow, Savings, Solutions.



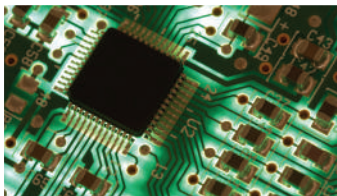
Pure Convenience.® Nitrogen on demand – anywhere, any time.

Flow Rates 10 to 75,000 SCFH

Purity Levels 95% to 99.9995%



We can custom design any size system to meet your specific needs, schedule or budget.



Our generators provide controlled purity and volume, with less cost than bottled gas.

Applications:

- Selective Soldering
- Wave Soldering
- Reflow
- Brazing
- Inert Atmospheres



Nitrogen Atmosphere Benefits:

- Up to 80% Drose Reduction
- Support for Lead-Free Alternatives
- Less Reworks
- Improved Wetting
- Improved Yield and Quality
- Less Voiding
- Reduced Solder Balls and Icicling
- Better Thru Hole Penetration
- Improved Solder Joint Surface Finish
- Achieve Tighter Keep-Away Distances
- Increased Process Window
- Preservation of Soldering Conditions
- Better Preheating and Flux Activation



CONVENIENT

SAFE

ECONOMICAL

RELIABLE

FLEXIBLE

RAPID ROI

BUY, RENT, OR LEASE

MADE IN THE USA

**ON SITE**  
Gas Systems

Manufacturers of Oxygen and Nitrogen Generators

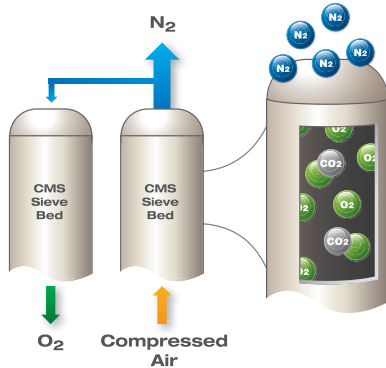
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[www.onsitegas.com](http://www.onsitegas.com)

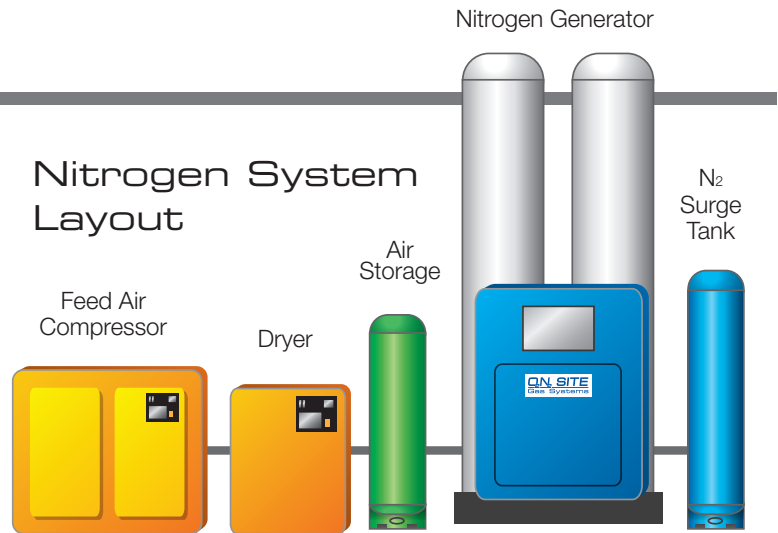
# NITROGEN GENERATORS

## ELECTRONICS

### How Does a Nitrogen PSA Work?



### Nitrogen System Layout



### HOW IT WORKS:

Compressed air enters one of two sieve beds (filled with carbon molecular sieve-CMS). While the smaller oxygen molecules are adsorbed by the CMS, the larger nitrogen molecules pass through and are stored. Upon saturation, the first sieve bed releases the oxygen, while the second sieve bed starts the process over again.

### Features and Benefits:

#### Convenient:

Easy to install and maintain with an unlimited supply of nitrogen.

#### Touch Screen Control:

Precision system control for purity level, trouble shooting diagnostics, maintenance schedules and operation diagrams.

#### Cost Savings:

Produce your own gaseous nitrogen for a fraction of purchasing cylinders, dewars or bulk.

#### PFX:

Up to 3 different purity levels from the same machine.

#### Fast Payback:

Systems average less than 18-month ROI. No delivery fees, tank rental, long term contracts or price increases.

#### Low Operating Cost:

Low air-to-nitrogen ratio and minimal maintenance.

#### Fully Automatic:

Nitrogen production begins when downstream demand is sensed.

#### Reliable:

Systems operating over 20 years in some of the most remote locations in the world.

#### Lease/Rental Options:

Write off the cost of your generator as an operating expense, rather than using capital.



**ON SITE**  
Gas Systems

40" L x 44" W x 101" H

We can design a system to meet your specific needs.