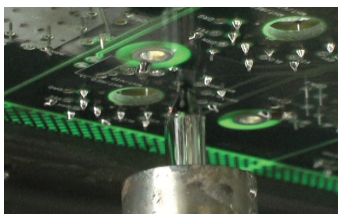


Purity, Pressure, Flow, Savings, Solutions.



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.

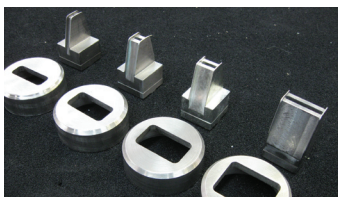
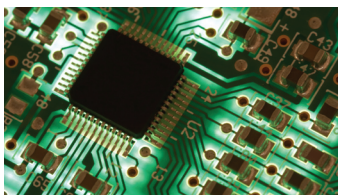
**Our generators provide controlled purity and volume, with less cost than bottled gas.**

**Applications:**

Selective Soldering  
Wave Soldering  
Reflow  
Brazing  
Inert Atmospheres

**Nitrogen Atmosphere Benefits:**

Up to 80% Dross 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

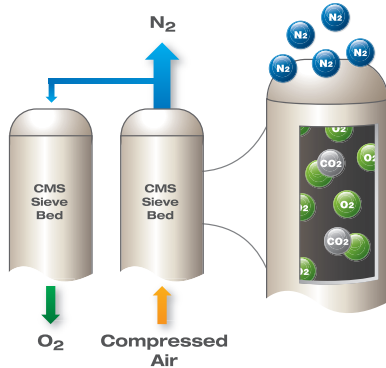
35 Budney Rd. | Budney Industrial Park  
Newington, CT 06111

888.748.3429 | email: [info@onsitegas.com](mailto:info@onsitegas.com)  
[www.onsitegas.com](http://www.onsitegas.com)

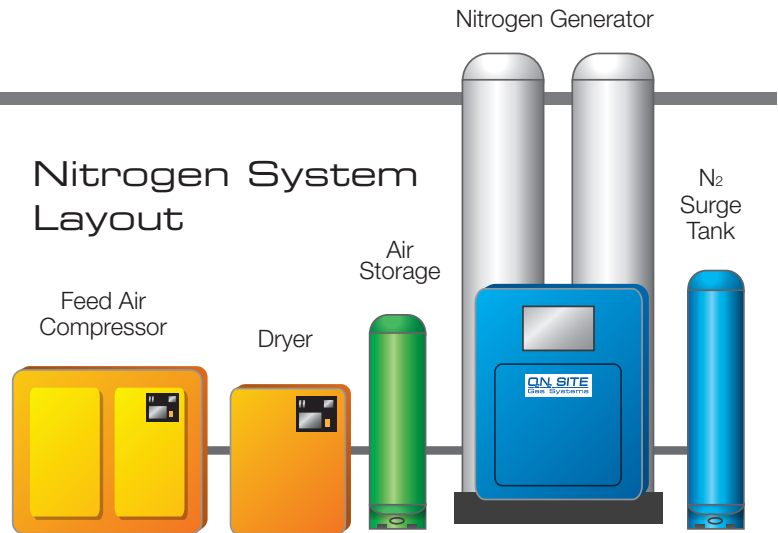
# NITROGEN GENERATORS

## 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.



16" L x 20" W x 84" H

40" L x 44" W x 101" H

**QN<sub>2</sub> SITE**  
Gas Systems

We can design a system to meet your specific needs.