



# FEDA Nitrogen Inc.

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



**SAFETY  
QUALITY  
PERFORMANCE DRIVEN**





# ABOUT FEDA NITROGEN INC.

## COMMITMENT TO INNOVATION AND QUALITY ASSURANCE

FEDA Nitrogen Inc. is one of the industry pioneers in manufacturing

- Pressure Swing Adsorption (PSA) Nitrogen generators
- Membrane Nitrogen generators
- Oxygen generators
- High purity Nitrogen purification equipments

With certifications like ISO9001, ISO14001, ISO18001, GMP, ASME, CCS MA Feda Nitrogen Inc. products and services are setting the standard to continually improve on safety, quality and technology.

Our enterprise is continually flourishing with strong sales and increasing market share due to our excellent safety record, quality products and services.

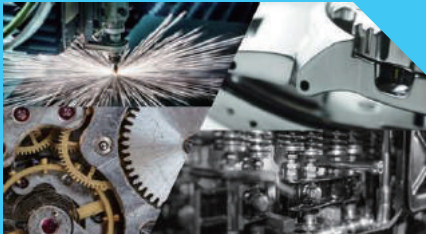
Our state of the art facilities and growing production capacity have been instrumental in meeting our clients growing demand for our generators.

FEDA Nitrogen's talented staff are constantly engaged in designing and manufacturing high quality generators with cutting edge technology applied across many industries. Please inquire about our products and services to see how we can help your company achieve your air separation and generation goals.





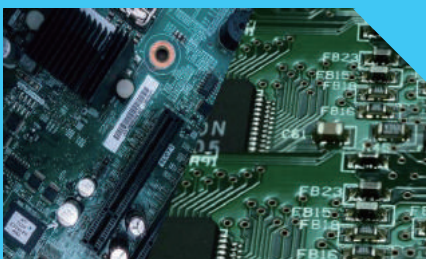
# NITROGEN IN DIFFERENT INDUSTRIES



- Metallurgical Industry
- Laser Welding



- Oil and Gas
- Coal Industry
- Mining
- Marine



- Electronics Industry
- Laser Cutting
- Heat Treating

- Chemical Industry
- Rubber and Plastics
- Automotive/Tire Inflation



- Food & Beverage
- Medical Industry
- Agriculture



# ONSITE NITROGEN GENERATORS

## COST SAVINGS



Variable cost savings based on

- Local market price
- Delivery cost / fuel and transport
- Storage and handling LIN volume loss (Minimum of 10% on transfers and 0.4% daily storage)
- Eliminate the need for LIN storage and transport equipment

Depending on the application type the average cost saving has been in the range of (40% to 80%)

## INCREASED SAFETY

Less risk of personnel exposure to  $-320^{\circ}\text{F}$  LIN while handling  
Less risk of injury handling high pressure N<sub>2</sub> Cylinders



## REDUCED ENVIRONMENTAL IMPACT

Less energy consumption leading to fewer carbon emissions associated with

- Liquifying of Nitrogen
- Compressing Nitrogen into cylinders
- Transportation of liquid or compressed Nitrogen cylinders





# PRESSURE SWING ADSORPTION (PSA) NITROGEN GENERATORS

Our PSA Nitrogen generators provide flow rates ranging from 1 to 4,000 Nm<sup>3</sup>/h (0.62 to 1,870 SCFM).

- Onsite Nitrogen generation
- Capability to deliver Nitrogen purity up to 99.9999%
- Innovative PSA tower technology with prolonged operating time
- Remote and cloud based controls capable
- Our generators are engineered and manufactured to fully integrate with your existing systems

## PSA NITROGEN GENERATORS OVERVIEW

Model Class	Rate (Nm <sup>3</sup> / hr) (SCFM)	Purity* (%)	Common Applications
FDN1 – FDN6 Small Mobile N2 Generator	1 - 6 0.6 - 3.74	95 - 99.999	Tire Inflation, Food Packaging, Experimental Lab
FDN-10 – FDN-4000 Medium to Large N2 Generators	10 – 4,000 6.23 – 2,492	95 – 99.99	Food , Petrochemical, Oil & Gas
FDN-100CZ – FDN-800CZ Diesel Operated / Mobile Unit	100 – 800 62.3 – 498	95	Oil & Gas, Fire Protection, Mining, Offshore Platforms

\*FEDA nitrogen purification equipment is available for N2 purity above 99.99 %.



# MEMBRANE NITROGEN GENERATORS

- Onsite Nitrogen generation
- Capability to deliver Nitrogen purity up to 99%
- Unmatched flow capacity and air factor in the industry membrane modules
- Remote and cloud based controls capable
- Our generators are engineered and manufactured to fully integrate with your existing systems

## MEMBRANE NITROGEN GENERATORS OVERVIEW

Model Class	Rate (Nm <sup>3</sup> / hr) (SCFM)	Purity (%)	Common Applications
FDM- 5 – FDM50 Small Mobile N2 Generator	5 – 50 3.12 – 31.2	95	Tire Inflation, Food Packaging, Experimental Lab
FDM100 – FDM3000 Medium to Large N2 Generators	100 – 3000 62.3 – 1,869	95 - 98	Food , Petrochemical, Oil & Gas
FDM- 600 – FDM6000 Diesel Operated / Mobile Unit	300 – 6,000 186.9 – 3,738	95	Oil & Gas, Fire Protection, Mining, Offshore Platforms

# ONSITE GENERATOR INSTALLATION



We have over thirty years experience in Nitrogen and Oxygen systems' design and installation. We are also proficient in laboratory and Cryogenic system installations and construction projects.




Each project can be tailored to meet your specific specifications and requirements. We can provide a true turnkey service, from design to finished product evaluations and beyond.



Our in-house design team is professional, efficient, and receptive to the needs of our customers. Every component and detail of each installation is controlled, tested, and certified by our own highly experienced technical staff.



A large offshore oil rig is silhouetted against a vibrant sunset sky. The rig's complex structure, including cranes and platforms, is reflected in the calm water below. A large ship is visible in the background to the left.

It is our employees that ultimately deliver satisfaction to our customers. We will grow by helping our customers achieve or exceed their goals and objectives through integrity and motivation of people who care.

## ONSITE GENERATOR SERVICE & MAINTENANCE



Any major investment in new equipment deserves to be protected by a highly experienced professional maintenance provider. We are committed to going beyond high standards in service and maintenance and providing custom engineered solutions to ensure that your air separation system operates effectively and efficiently.



We are proud of the reputation we have built as one of the world's leading onsite Nitrogen and Oxygen gas generation service providers. Continuing growth year after year has built one of the best air separation organizations with over 30 years of experience in the Nitrogen and Oxygen industry throughout the world.



## WE SERVICE:

- PSA and Membrane Nitrogen generators
- PSA and VPSA Oxygen generators
- All brands and applications



## WE PROVIDE:

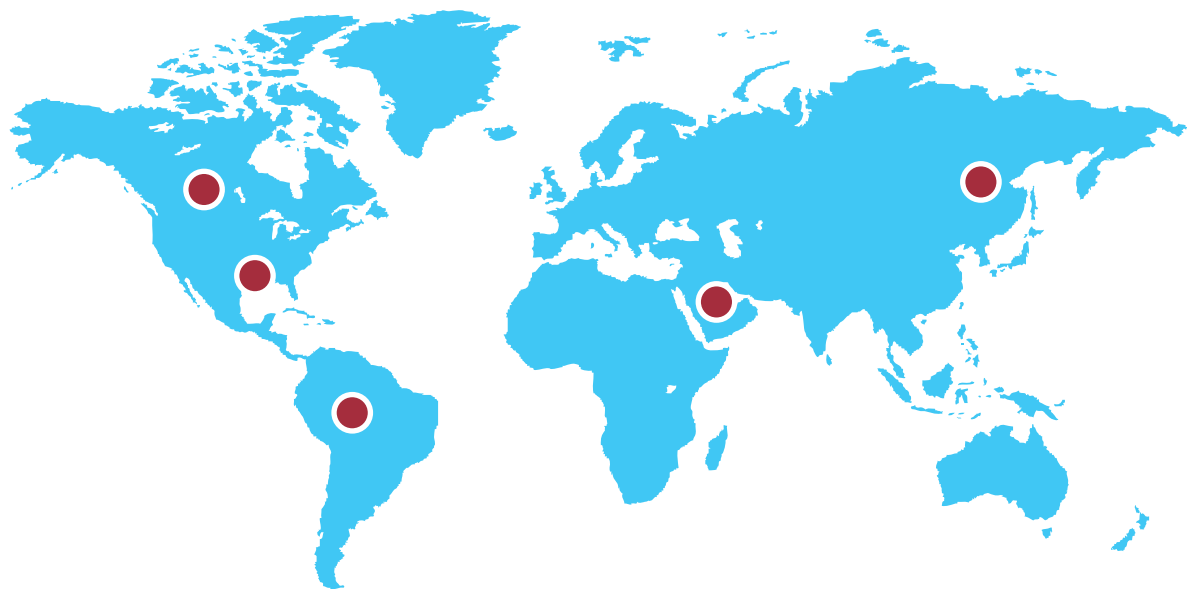
- Replacements for PSA molecular sieve and membrane modules
- Complete system installation services
- Annual Preventative Maintenance kits with or without maintenance contracts
- Technical support of existing and new generators
- Spare parts and replacement service available upon request

# ONSITE GENERATOR SERVICE & MAINTENANCE

We are here to help with your Nitrogen and Oxygen generator maintenance.







Our principal goal is to develop a strategic long term partnership with our clients by providing them value based air separation solutions that meets their needs.

## GLOBAL SALES

### **US / International**

+1 832 804 8988  
Sales@fedanitrogen.com  
www.fedanitrogen.com

### **China**

+1 86 0105 977 1688  
+1 86 1851 020 3478  
Sales@fedanitrogen.com  
www.fdzd.com.cn

## MANUFACTURING SUPPORT

### **FEDA Nitrogen Inc.**

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Houston, TX 77043  
+1 832 804 8988 (phone)  
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