*Update the Banner Image with nGENX*

Product

**About nGENX**

Being the largest component of breathable air (78%), nitrogen gas serves a lot of purposes. Food packaging and chemical blanketing or nitrogen padding; has a unique requirement and that’s how we designed and manufactured the nGENX.

Gone are the days when high-pressure pre-filled cylinders were the only option to meet the nitrogen requirements of a manufacturing unit or any other industry with regular nitrogen consumption. With years of research and hard work, Absstem has come up with the efficient nGENX. It allows you to generate nitrogen onsite at required purity levels.

Features

* EIGA E-941 Compliant Nitrogen *(Use Attached EIGA Logo)*
* In-house Placement and Production
* Starts Production Minutes After Installation
* Hydrocarbon Free Nitrogen
* Compact And Easy to Maintain
* Designed for 24x7 Operation
* Regular PMS (Preventive Maintenance Schedule)

Benefits

* No Delivery Bottlenecks
* Constant Supply
* No Transportation Required
* Safety
* Cost-effective
* Onsite Production
* Consistent Purity
* Environment-friendly
* 10 Years Warranty
* Self-protective monitoring of the feed air quality parameters
  + Temperature
  + Pressure
  + Pressure dewpoint
  + Automatic feed air blow-off in case of contamination
* Advanced HD Touch Screen Display
  + Fully automatic, user friendly
  + Remote monitoring equipped
  + Advanced GUI with data monitoring and storage
  + Nitrogen purity readings in real-time
  + Triggered alerts and alarms on any abnormal functionality
  + Data storage with external storage capability for audit purposes
  + Can be remotely activated
  + RS232, RS422, USB and Ethernet ports supported
* Highest Quality Carbon Molecular Sieve (CMS)
  + Very High Density due to packed-bed Technology
  + Protected by the dedicated pressure sensor
  + 10-year warranty on CMS\*
* Multistage filtration system
  + Filters remove oil and dust particles
  + Additional filters drain moisture using an ADV (Automatic Drain Valve)
* Automatic start-up
  + Eliminates the risk of overflow and CMS damage
* Premium energy efficiency
  + Lowest Air factor (Air-to-Nitrogen ratio) from 1.8 (95% N2) in the industry
* The ultimate energy saver
  + Self-regulation and stable purity
  + Stand-by mode in case no Nitrogen is consumed
  + Automatically regulates the requested nitrogen pressure and purity

Working

Gas Separation *(Update the PSA System in the image to nGENX)*

The industrial nitrogen generator consists of two adsorbers filled with carbon molecular sieves (CMS). Pressurized air is passed through one of these adsorbers with Carbon, having a structure to attract oxygen, adsorbs oxygen from the air and nitrogen is allowed to pass through to the storage tank and is produced as the final product. As the adsorber approaches saturation, the air is allowed to pass through the other adsorber while this adsorber is being regenerated to ensure a continuous supply of industrial nitrogen.

This changeover takes place through a specially designed micro controller to ensure a hassle-free operation. The quality of nitrogen produced is continuously monitored by a nitrogen analyzer.

Engineering

* Alarm management system
* Plug and Play
* Fully automatic
* Process data display
* Service planning element
* Display of consumable’s running hours
* Data logging via USB drive
* Graphical representation

Additional Upgrades

* Digital flow meter with totaliser
* High pressure nitrogen tank
* Cylinder manifold and alarm management system
* Remote monitoring

STATS

Technical Data *(Update Point 2 and point 9)*

* Lowest specific power in the industry
* Inlet air as per ISO 8573.1:2010 – Class 1.4.1
* Pressure up to 350kg/cm²g is available on demand through N2 compressors
* Maximum relative humidity is 95%
* Purity testing is done by NABL APPROVED lab
* Sound level of 65 dB from a distance of 1 meter
* Working temperature is -5° C to 50° C
* Nitrogen Flow up to 3000 NM³/hr
* Purity up to 99.90%
* USB Storage to store parameters values
* CE-certified electronics with 24 VDC Operating Voltage
* All tanks are fabricated per ASME standards
* All tanks have a corrosion-resistant internal environment
* ISO 9001:2015: Manufacturing is in accordance with certified QMS (Quality Management System)

Accreditation

Certifications *(Add all the logos just like nGEN)*

Systems

Packaged Solutions

Compressor

Auxiliary Equipment

SKID FLOW SCHEME-WITH CYLINDERS-1-1

High-Pressure Nitrogen Cylinder filling System

* PSA Nitrogen generator with Nitrogen booster compressor for filling of cylinders
* Cylinders filled up to 350 Barg pressure
* Cylinders filling range/day is 8 to 1000 Nos.
* High-Pressure Nitrogen up to 70 Barg

ROI

Return on Investment *(In the graph, please make it nGENX instead of nGEN)*

With great emphasis on cost-effective, low-impact business practices, most businesses opt for bulk delivery to meet all their industrial gas requirements. But given the fluctuation in market prices of gases like oxygen and nitrogen, this is no more a viable option. A large number of industries are using onsite gas generation plants for reliability and improved ROI.

Utilities

Applications

* Food Packaging
* Chemical Blanketing