

**n<sup>i</sup>GENX**  
POWERED BY ABSSTEM INDUSTRIAL



# THE NEXT-GENERATION OF INDUSTRIAL EXCELLENCE

Industrial on-site PSA Nitrogen Generator

# Advanced features

# Technical capability

Choose the model that best fits your requirements.

Models	Purity (NM <sup>3</sup> /hr)			
	95%	99%	99.5%	99.9%
nGEN X 01	8.4	6.3	5.5	5
nGEN X 04	17	13	11	10
nGEN X 05	25	20	17	15
nGEN X 07	34	25	22	20
nGEN X 08	42	32	30	25
nGEN X 10	50	40	33	30

## Technical Specifications

Relative humidity	Max 95%
Nitrogen Flow	2.5 to 3000 - NM <sup>3</sup> /hr
Working temperature	- 10°C to 55°C
Power Supply	230 VAC, 50/60 Hz
Inlet air pressure	Min 7.0 barg*
N <sub>2</sub> Delivery Pressure	Up to 5.5 barg#
Nitrogen Dew Point	- 50°C
ISO 9001:2015	Manufacturing is in accordance with <b>Certified Quality Management Systems</b>

\* Higher pressure available on demand

# Higher dew point available on demand



# Trusted and proven industry-leading technical features

## 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% N<sub>2</sub>) 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

\* When the plant is under CMC

**LOWEST SPECIFIC POWER**  
in the industry

Pressure up to  
**350 KG/CM<sup>2</sup>G**  
is available on-demand through Nitrogen compressors

**CE-CERTIFIED ELECTRONICS**  
with 24 VDC Operating Voltage

Inlet air as per  
**ISO 8573.1:2010 - CLASS 1.4.1**

**SOUND LEVEL OF 65 DB**  
from a distance of 1 meter

All tanks are fabricated per  
**ASME STANDARDS**

**PURITY TESTING DONE**  
by NABL APPROVED lab

**USB STORAGE**  
to store parameters values

**CORROSION-RESISTANT**  
internal environment for all tanks

## About Absstem

Innovation is as essential to our team as nitrogen is to your business. So how do we constantly innovate? By disrupting the existing category codes. We invest not only in gas separation of the purest grade but also maintain high standards in our after sales service. Pioneering the PSA technology in India, we deal with complete range of gas separation plants. Keeping the pioneer spirit alive and well, we have become the market leaders in gas separation.

Best known for our presence in the on-site oxygen generation in the Indian industrial sector, we are also recognised by Best known for our presence in the on-site oxygen generation in Indian industrial sector we are also recognised by Dept. of Industrial Policy & Promotion (DIPP) for innovation in the industrial sector and registered under the Ministry of Micro, Small and Medium Enterprises, Government of India (MSME) and Confederation of Indian Industry (CII).

## Certification and compliances

Our Quality Management Systems (QMS) is in full compliance with **ISO 9001:2015**

Our effective environmental management system (EMS) is in full compliance with **ISO 14001:2015**

Our occupational health and safety management systems are in full compliance with **ISO 45001:2018**



ISO- 9001-2015

ISO-14001

ISO-45001



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

### Corporate Address:

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### Factory Co-ordinates

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