

NITROGEN GENERATION

BY PRESSURE SWING ADSORPTION (PSA) TECHNOLOGY



PSA - N₂

Nitrogen Gas Plant separate nitrogen from compressed air utilizing Pressure Swing Adsorption (PSA) technologies. Compressed air, which consists of approximately 21% oxygen and 78% nitrogen, is passed through a bed of Carbon Molecular Sieve (CMS).



The CMS preferentially adsorbs O2 and moisture, allowing the N2 to pass through as a PSA Nitrogen plant product psa Nitrogen gas generators at the specified pressure. While one of the towers is in the adsorption phase, the other tower is being regenerated, by de-pressurizing and allowing the CMS to release the adsorbed gases to the atmosphere. The cycle then repeats, allowing for constant flow of a controlled Nitrogen purity and flow.

Options / Upgrades	HMI Display Screen	Containerized or Trailer Mounted Plant
	Dew Point Analyzer	Booster Compressor

This product line is designed for medium to large flow rates and has a reduced footprint. It consists of single pairs of our Twin Tower Adsorber Vessels and air and nitrogen buffer vessels (installed on a common skid or supplied separately).

Technical Indicators

Flow Rate	5 to 500 Nm3/hr
Purity	95% to 99.999%
Pressure	5 Kg/cm2g (standard)
At Dew Point	Up to (-) 80°C

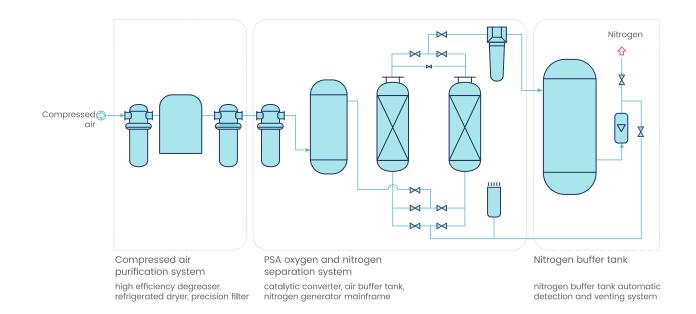
- ASME Heavy Duty Adsorber Vessel
- Highest Performance Adsorbent Media

Low maintenance &

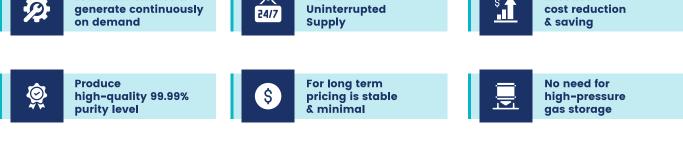
- High Cycle Life Electro Pneumatic Valves
- Online Oxygen Analyzer
- Modular Skid Mounted

- PLC Control System
- Advance Stage Filtration System
- Exhaust Silencing Muffler
- Fully automated unattended Operation

Effective















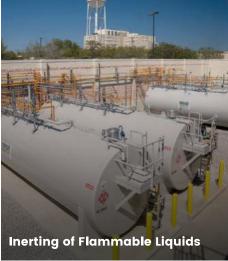




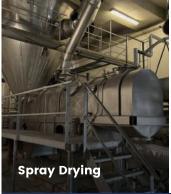


















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