

## PSA nitrogen generator equipment



PSA or variable pressure adsorption technology is used in modern nitrogen generators, and it uses the basic principle of separating air at ambient temperature using CMS or carbon molecular sieves. If you don't know CMS, then let me explain that it is a material that adsorbs oxygen.

### Nitrogen production process

Here, a tower continuously produces gas in a regeneration cycle. As the compressed air passes through the CMS bed, molecules of oxygen, moisture and other gases are

adsorbed on the surface of the carbon molecular sieve. This process does not adsorb nitrogen, which exits the adsorption column and is then collected in a buffer vessel.

Two interconnected adsorption towers are provided for the uninterrupted nitrogen production process. Since they are interconnected, when one tower is saturated with oxygen, the other tower continues its nitrogen production process and so on.

Features of nitrogen generators.

Here are some of the important features that we offer as a top manufacturer of nitrogen production equipment

Designed for long service life

High reliability and availability

Fully pre-engineered skids

Product control flexibility in terms of purity and flow rate

Fast start-up and full automation

Low on-site production costs

Low equipment maintenance costs

Typical Applications for Nitrogen Equipment

If you are not sure where to use these units, the following are the main applications where nitrogen equipment can be used.

Natural gas and oil

Power industry

Food industry

Float glass industry

Petrochemical and chemical industry

Metallurgy/Heat Treatment

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