

Some basic principles of PSA nitrogen and oxygen generators



PSA nitrogen generator plants usually consist of two tower systems, each time filled with a special type of CMS. With the help of Pressure Swing Adsorption (PSA) technology, we produce highly economical and high-performance nitrogen plants. These two towers work in the process of nitrogen production and regeneration. Nitrogen is produced in the process of passing compressed air through a carbon molecular sieve (CMS). In this process, moisture, oxygen molecules and other gases are absorbed, while the nitrogen is not absorbed and flows directly out. The nitrogen is then collected in a surge container.

Generally, PSA nitrogen generators are available if discharge at higher pressures is required. In Suzhou Schieter, China, we offer very efficient systems that can discharge at very high pressures according to the customer's requirements.

Purity and type of nitrogen

Our systems can provide the purest nitrogen in the range from 99% to 99.99%. We have different models of generators that can produce different ranges of nitrogen purity.

1. MS type. Application of gases in different industries, heat treatment furnaces and coal mine control.
2. Deoxo models. For use in metallurgical industry, pharmaceutical industry and other places where the purest oxygen is required.
3. Copper Deoxo model: for synthetic fibers, fiber optic cables and electronics industry where ultra-high purity is required.
4. Nitrogen production equipment with booster: The booster helps to discharge at higher pressures. This system can be powered up to produce higher pressures.
5. Laboratory-scale nitrogen generator models: Available for existing air supply or with dedicated compressors designed for laboratory use.

Oxygen Equipment Manufacturer

China Suzhou Hi-Tech is a leading supplier and manufacturer of nitrogen and oxygen equipment. Our experienced team uses the highest quality components to ensure the highest performance of the system. Our products are effective in continuous gas supply. Also, they are built in such a way that they are extremely safe and reliable for any industry. Additional benefits include compactness and complexity in design, ease of operation, lower costs and most importantly the need for minimal maintenance and support. You can contact us for further details and quotes on these nitrogen and oxygen equipment.

