

Nitrogen generator for your production

Nitrogen production on site

mit N₂ Reinheit von 95 % bis zu 99,9999 %

AIRCO® Group offers both a **space-saving, effective and convenient solution** for on-site oxygen production. The so-called “**PSAE systems**” combine a modern **platform construction** with many years of experience in the field of **ultra-pure nitrogen production for electronics applications**.

The system, including all components, is assembled on the prefabricated modular skids at our production site in the Rhine / Main region. **The compressed air treatment, nitrogen generator, product container, nitrogen drying, N-Kat®, filter** and the **high-pressure compressor** are all located on the basic structure, which is always identical.

Once assembly is complete, the entire system undergoes an approval procedure by our technical department and our notified **CE body**, and the system is then run in. At this time, the subsystems are extensively checked for their function and leak-tightness. The settings can be adapted to the specifications of our customers at this early stage.

As a result, we can put the equipment into operation at the customer's location in record time and can implement the fundamental **plug and play application**. Loading and positioning, for which only a forklift is required, is also very simple thanks to the **compact construction**.

Our nitrogen generation system is professionally connected to the gas supplies for your soldering application. The final step sees our customers receive training from our technicians directly at their own facility so that they can plan and monitor their future **nitrogen production**.

With our **N-Kat® - system**, we guarantee purity of up to 6.0 with an air factor of 3,3 - this is **unique worldwide**.

In the N-Kat®, the hydrogen reacts with the residual oxygen in the nitrogen. The chemical reaction produces water vapour and heat, which is removed by means of filtration and drying.

This process allows us to operate much smaller air compressors thereby **saving 50% of the energy required and, as a result, a large quantity of CO₂** in connection with the production of high-purity nitrogen.



STICKSTOFFERZEUGUNG

INDEPENDENT, FAST & COST-EFFECTIVE DIRECTLY ON SITE

BENEFITS

- Plug & play systems
- Immediately operational
- Low maintenance effort
- High quality and worldwide service

SPECIFICATIONS / DATA

- Volume flow 0,9 - 1600 m³/h
- Purity 95% - 99,9999%
- Output pressure 3 bis max. 300 bar

OPTION: ENERGY & COSTS SIGNIFICANTLY REDUCE

- Reduce your energy costs by integrating your solar power system
- Use the potential of thermal heat with **energy saving up to 80 %**

HIGHLIGHTS

- Small surface area requirement and simple operation
- Extremely low power consumption
- Extremely low air consumption
- Industry 4.0: querying and control of the system from any location in the world

AIRCO® INFINIT EMS

THE SMART ENERGY MANAGEMENT SYSTEM

