

Why Luoming Is China's Leading Supplier of Carbon Purification Nitrogen Generators — A Comprehensive Buyer's Guide



Yancheng, Jiangsu Jan 7, 2026 (Issuewire.com) - Recognized as a [**China Top Carbon Purification Nitrogen Generator Supplier**](#), Jiangsu Luoming Purification Technology Co., Ltd. (Luoming) combines cutting-edge engineering, stringent quality control, and industry-leading innovation to provide high-performance nitrogen generation systems. The company has also obtained the **Customs Registration Unit Level Certificate**, enabling seamless international trade and reinforcing its position as a trusted global supplier of carbon purification and PSA nitrogen solutions.

Established in May 2020 as a wholly-owned subsidiary of Suzhou Hengda Purification Equipment Co., Ltd., Luoming operates from a **16,000-square-meter modern facility** integrating research and development, production, sales, and after-sales service. By the end of 2022, the company obtained the **Ce certificates**, demonstrating its capability to produce industrial-grade gas equipment that meets rigorous national and international standards.

Industry Overview: The Growing Demand for Carbon Purification Nitrogen Generators

The global industrial gas market is experiencing rapid growth, driven by increasing healthcare demand, industrial automation, and sustainability initiatives. Nitrogen, in particular, has become a critical component for a wide array of applications, from clients requiring sterile environments to advanced

manufacturing facilities needing ultra-pure nitrogen for precise production processes.

Industrial Growth:

High-purity nitrogen is critical in industries such as electronics, pharmaceuticals, metallurgy, food packaging, and chemical production. In semiconductor manufacturing, for example, nitrogen provides an inert atmosphere for soldering and testing, ensuring consistent product quality. Similarly, in pharmaceuticals, nitrogen prevents oxidation during production and packaging. This growing industrial reliance on high-purity nitrogen has made PSA generators with carbon purification technology a standard solution.

Sustainability and Cost Efficiency:

With global emphasis on reducing carbon footprints, on-site nitrogen generation minimizes cylinder transport, cuts greenhouse gas emissions, and reduces the risk of supply interruptions. Optimized compressor cycles and adsorption processes in modern PSA systems ensure energy-efficient operations, reducing electricity costs while maintaining continuous high-purity nitrogen output.

Digital Integration and Smart Monitoring:

Modern PSA nitrogen generators integrate IoT-enabled monitoring and PLC-based automation, allowing operators to track purity levels, flow rates, pressure, and maintenance alerts in real-time. This capability is particularly valuable for pharmaceutical plants, and electronics manufacturers, as it ensures uninterrupted production while enabling predictive maintenance and minimizing downtime.

Luoming's Technological Leadership and Product Excellence

Luoming has established itself as a pioneer in PSA nitrogen generation and carbon purification technology. It utilizes highly active carbon-supported reactants to react at a specific temperature, generating CO₂ while removing oxygen and producing 99.9995% high-purity nitrogen. .

Core advantages include:

High Purity and Stability: Nitrogen purity ranges from 95% to 99.9995%, meeting strict industrial standards, ensuring stable supply for labs, and manufacturing lines.

Energy-Efficient Operation: Intelligent compressor control and optimized adsorption cycles reduce energy consumption by up to 30%, lowering operational costs.

Advanced Control System: PLC-based automation allows real-time monitoring of nitrogen purity, flow, pressure, and overall system performance. Remote monitoring capabilities help minimize human intervention while enabling predictive maintenance.

Modular and Scalable Design: Systems are configurable for small laboratories, or large industrial facilities, with easy expansion options for future growth.

Safety and Reliability: Built-in alarms, automatic shutdown mechanisms, and contamination prevention features ensure continuous, safe operation.

All Luoming systems are manufactured under **ISO9001**, and **ISO13485**, with rigorous testing protocols

including leak detection, pressure calibration, and purity verification before delivery.

Applications and Customer Success Stories

Luoming's systems have been successfully deployed across a wide range of sectors:

Pharmaceutical Manufacturing: A Jiangsu-based client implemented Luoming's nitrogen generator to maintain inert atmospheres during production and packaging, enhancing product stability and reducing contamination risk.

SMT Reflow Soldering: Nitrogen reflow soldering is to fill the reflow furnace with nitrogen in order to prevent the air from entering the reflow furnace to prevent the element angle oxidation in reflow welding. The use of nitrogen reflow soldering is mainly to enhance the quality of welding, so that welding occurs in an environment with very little oxygen content (100PPM) or less, which can avoid the oxidation problem of components. Therefore, the most important thing for nitrogen reflow soldering is to ensure that the oxygen content is as low as possible, and the purity of nitrogen is generally greater than 99.99%.

Electronics and Semiconductor Manufacturing: Ultra-pure nitrogen is applied in soldering, testing, and assembly lines, ensuring product quality and operational safety.

Clients consistently report enhanced operational efficiency, cost savings, and improved safety following the deployment of Luoming systems, highlighting the company's ability to deliver customized, reliable solutions.

Why Choose Luoming

Selecting a PSA nitrogen generator supplier requires evaluating **technical expertise, certifications, product reliability, and after-sales support**. Luoming excels in all these areas. Its **Customs Registration Unit Level Certificate**, and ISO certifications, guarantee compliance with international standards, while its modular, scalable systems provide flexible solutions for diverse applications.

Combined with customer-focused service, advanced carbon purification technology, and energy-efficient design, Luoming has positioned itself as the preferred partner for laboratories, and industrial facilities seeking reliable, sustainable, and high-performance nitrogen generation systems.

For more information, please visit: <https://www.lmoxygenplant.com>

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