

Luoming PSA Medical Oxygen Generator: Enhancing Hospital Oxygen Supply Efficiency and Safety



Yancheng, Jiangsu Dec 24, 2025 ([Issuewire.com](https://www.issuewire.com)) - Jiangsu Luoming Purification Technology Co., Ltd., recognized as a [China Top Industry PSA Oxygen Generator Supplier](#) and holding the international **ISO13485 certification**, continues to set benchmarks in hospital oxygen supply solutions with its advanced PSA Medical Oxygen Generators. By combining innovation, safety, and efficiency, Luoming ensures that hospitals and healthcare institutions can meet growing patient demands with reliable, high-purity oxygen.

Established in May 2020 as a wholly owned subsidiary of Suzhou Hengda Purification Equipment Co., Ltd., Luoming operates from a modern facility spanning over **16,000 square meters**, integrating **research and development, production, sales, and service**. By the end of 2022, the company obtained the **Class II Medical Device Production License**, enabling it to manufacture advanced medical gas equipment that meets rigorous national and international standards. The company specializes in a wide range of gas-related equipment, including medical molecular sieve oxygen generators, medical onsite oxygen filling systems, modular oxygen generators, plateau dispersion oxygen generator, medical compressed air systems, portable oxygen cylinders, and other gas-related solutions.

Industry Insights: The Growing Need for On-Site Medical Oxygen Systems

The healthcare industry is experiencing unprecedented growth in demand for high-quality medical oxygen. Hospitals and clinics are facing increasing patient loads, especially in intensive care units, operating theaters, and emergency departments. The COVID-19 pandemic further underscored the vulnerabilities of traditional oxygen supply chains that rely heavily on cylinder deliveries or liquid oxygen transport, which can be disrupted during emergencies.

Pressure Swing Adsorption (PSA) technology has emerged as a leading solution to these challenges. PSA medical oxygen generators produce oxygen directly from ambient air using molecular

sieve technology, offering hospitals a continuous and reliable source of oxygen with purity levels often exceeding 99.5%. This technology reduces dependence on third-party oxygen suppliers, minimizes storage risks, and allows medical institutions to control their oxygen supply efficiently.

In addition, global trends emphasize **energy efficiency, sustainability, and digital monitoring**. Hospitals increasingly demand systems with real-time purity tracking, automated alerts, and energy-optimized compressors. As healthcare systems modernize and governments invest in hospital infrastructure, the adoption of PSA-based medical oxygen generators is expected to grow rapidly, not only in urban centers but also in remote and high-altitude regions where reliable supply is critical.

Luoming's Technological Advantages and Product Excellence

Luoming's PSA medical oxygen generators are designed with a focus on **precision, safety, and scalability**. Utilizing advanced **molecular sieve technology**, the systems separate oxygen from other gases, delivering consistent high-purity oxygen suitable for a wide range of medical applications.

Key product features include:

Luoming's PSA medical oxygen generators are designed to deliver exceptional performance and reliability across a wide range of hospital settings, with a suite of features that directly address the challenges faced by modern healthcare facilities. The **Oxygen Purity** is a standout attribute, consistently achieving 99.5% purity with minimal fluctuation, ensuring that critical areas such as intensive care units (ICUs) and operating theaters receive a stable and uninterrupted oxygen supply. This high level of consistency is essential for patient safety, particularly for those requiring long-term respiratory support or life-critical interventions.

The **Intelligent Control System** integrates advanced PLC-based automation, enabling real-time monitoring of oxygen purity, flow rate, and overall system performance. Hospital staff can easily track operational metrics, receive automated alerts for any deviations, and make informed decisions without manual intervention, enhancing both efficiency and patient care.

Energy Efficiency is another core advantage. Optimized compressor cycles reduce energy consumption while maintaining high output, lowering operational costs and promoting sustainability. The **Modular Design** allows scalable configurations, supporting everything from small clinics to large regional hospitals, with the flexibility to expand capacity as patient demands grow.

Safety and Reliability are paramount. Built-in alarms and automatic shutdown mechanisms prevent overpressure, contamination, and equipment malfunction, providing hospitals with peace of mind that their oxygen supply is secure, consistent, and fully compliant with regulatory standards.

The systems are manufactured under **ISO13485-certified quality management**, ensuring compliance with international standards for medical device safety and performance. Each generator undergoes rigorous testing, including leak detection, flow verification, and purity calibration, to guarantee optimal performance upon installation.

Comprehensive Product Portfolio and Applications

Luoming offers a broad range of medical and industrial gas solutions, making it a one-stop provider for hospitals, clinics, and healthcare facilities. Key offerings include:

Medical Molecular Sieve Oxygen Generators: Centralized systems for continuous oxygen supply in hospitals and healthcare networks.

- **Medical Onsite Oxygen Filling System:** An ideal solution for regions or countries where purchasing medical oxygen cylinders locally is costly and logistically challenging
- **Modular Oxygen Generators:** Scalable systems designed for medium-to-large hospitals, enabling flexible capacity expansion.
- **Aviation High-Purity Oxygen Generators:** Tailored solutions for high-altitude medical facilities or aerospace applications.
- **Medical Compressed Air Systems:** Oil-free compressed air solutions for surgical and respiratory devices.
- **Portable Oxygen Cylinders:** Lightweight, high-purity options for outpatient.

Luoming's oxygen systems are widely applied in intensive care units, surgical wards, emergency rooms, and high-demand outpatient facilities. Hospitals using Luoming equipment benefit from reduced operational costs, improved supply reliability, and enhanced patient care outcomes.

Customer Success Stories

Several hospitals across China have successfully integrated Luoming's PSA oxygen generators into their facilities. For instance, a major provincial hospital in Jiangsu reported uninterrupted oxygen supply to its ICU for over 12 months following the installation of a modular Luoming system. Energy consumption dropped by 20%, while patient care efficiency improved due to the system's reliability and real-time monitoring.

In high-altitude regions of China, including Tibet and Yunnan, Luoming's generators have enabled hospitals to maintain consistent oxygen delivery in challenging environmental conditions, ensuring the health and safety of patients in remote areas.

Industrial applications also benefit from Luoming's expertise, with medical-grade oxygen systems being adapted for pharmaceutical labs, sterilization facilities, and manufacturing plants that require controlled oxygen environments. These projects highlight Luoming's versatility and ability to meet diverse client needs with custom configurations.

Why Luoming Stands Out

Choosing the right PSA medical oxygen generator supplier requires considering **technical expertise, product reliability, regulatory compliance, and after-sales support**. Luoming excels in all these areas. With ISO13485 certification, Class II Medical Device Production License, and an experienced engineering team, the company provides reliable solutions that meet international standards.

Luoming's combination of innovation, high-quality manufacturing, and client-centered service makes it a leading choice for hospitals, clinics, and industrial facilities seeking secure, efficient, and sustainable oxygen supply systems. Its modular, automated, and energy-efficient designs ensure that clients can confidently rely on their systems even under peak demand conditions.

As hospitals worldwide increasingly prioritize self-sufficient oxygen generation to enhance patient safety and operational efficiency, **Luoming PSA Medical Oxygen Generators** continue to set new standards in the industry, combining advanced technology, regulatory compliance, and real-world application expertise.

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

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