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2026

MEDICAL GAS &
ENGINEERING

HANGZHOU MEDOXYGEN TECHNOLOGY CO., LTD.

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COMPANY PROFILE

Hangzhou Medoxygen Technology Co., Ltd. Medox is a leading international company in the Gas & Engineering field for life science, encompassing research and development, design, manufacturing, operations, and service provision. With a strong foundation in oxygen, the company leverages scientific research and gas production technology while incorporating advanced health applications to deliver innovative gas solutions for medical, healthcare, homecare, and industrial sectors. It offers high-quality gases, complete engineering equipment, and comprehensive operational services to cater to a wide range of customer needs. Currently, its services extend to international markets including Central Asia, Southeast Asia, Africa, and Eastern Europe, showcasing its robust global operational capabilities and establishing numerous international business best practices.

- Reliable Product
- Best Service
- Ultimate Safety

This is our honor



Medox Office



Medox Workshop

01

2 17 Medox
Established

2 18 First project
Awarded

2 19 Megas UK
Operated

2 20 Title of
High-tech Enterprise
Awarded

2 21 Megas NIG
Established

2 22 Provincial-level
Industrial new product
Certified

2 23 First public tertiary
A-grade hospital
Gas project
Awarded

2 24 Title of
Specialized and
Sophisticated enterprise
Awarded

2 25 Medical gas Institute
Established

2 26 Get Certificate
of Registration
of E.U.

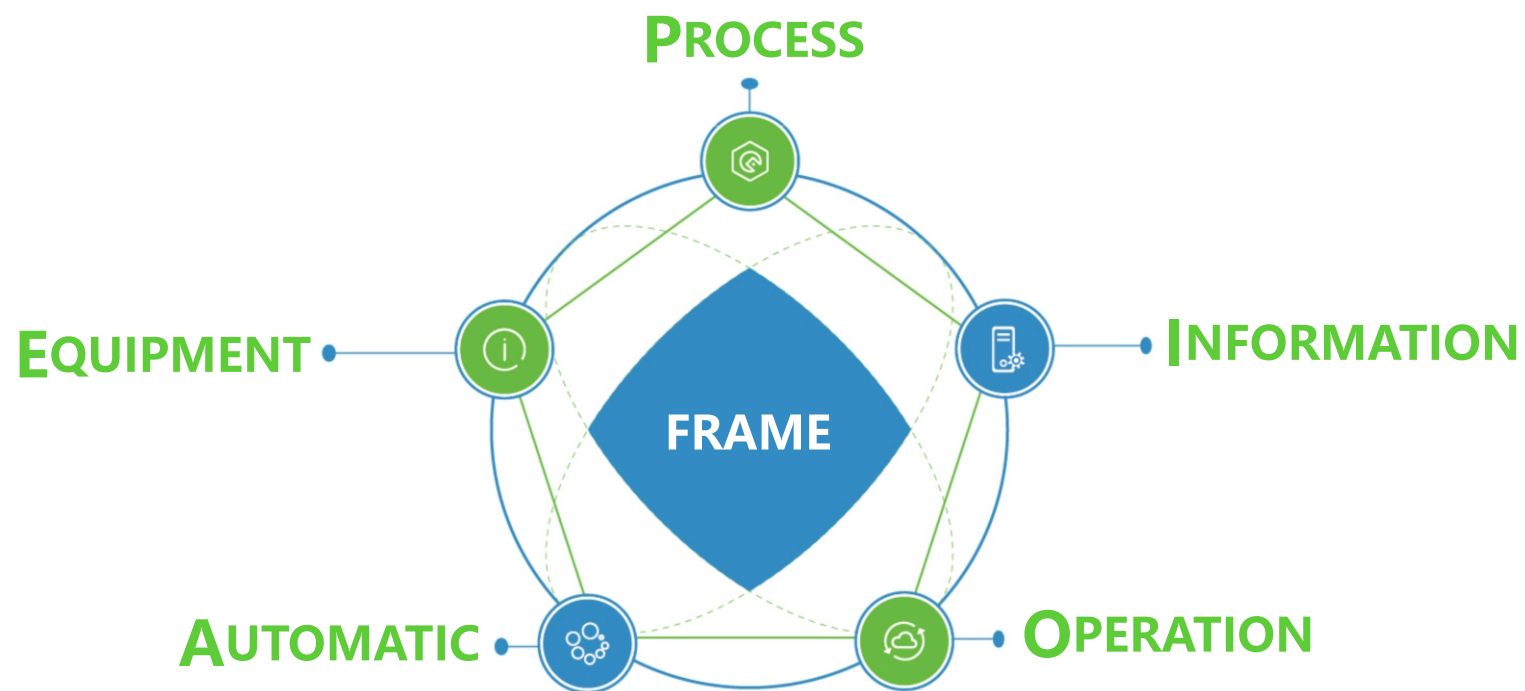


Keateng Jim
CEO

02

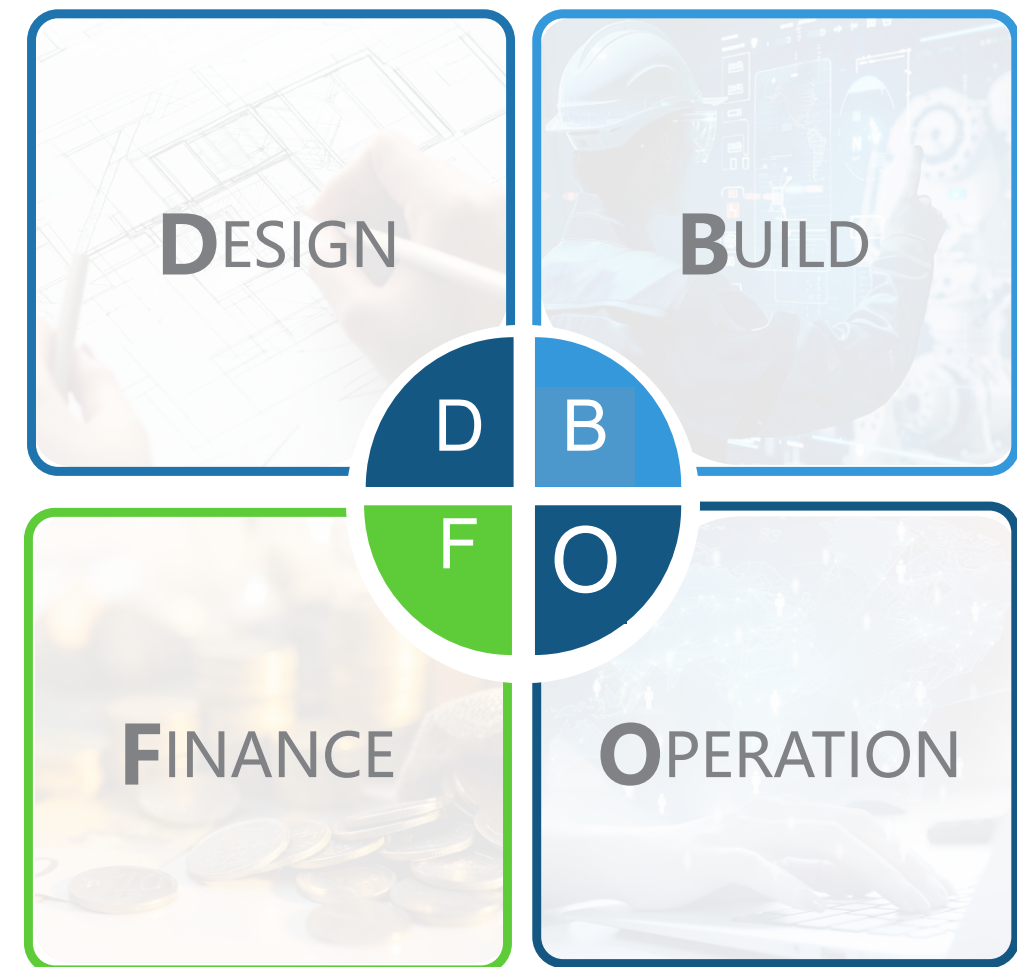
PEAOI INTEGRATED TECHNOLOGICAL FRAMEWORK

The "PEAOI" integrated technological framework not only combines various parts of gas systems but also addresses customers' diverse gas requirements based on standardized and customized criteria, thereby providing gas supply services that are safe, convenient, and economical. Its comprehensive technical framework encompasses five categories: process technology, equipment technology, automation technology, operation technology, and information technology.



DBFO BUSINESS MODEL

Our company pioneered the "DBFO" business model, which provides end users with full-chain turnkey services across four key areas: design, construction, financing, and operation. Users only need to focus on the application scenarios and the quantity of the final product—medical gas. All other business and technical matters are managed by our company, aiming to deliver the most seamless and comfortable experience for our users.

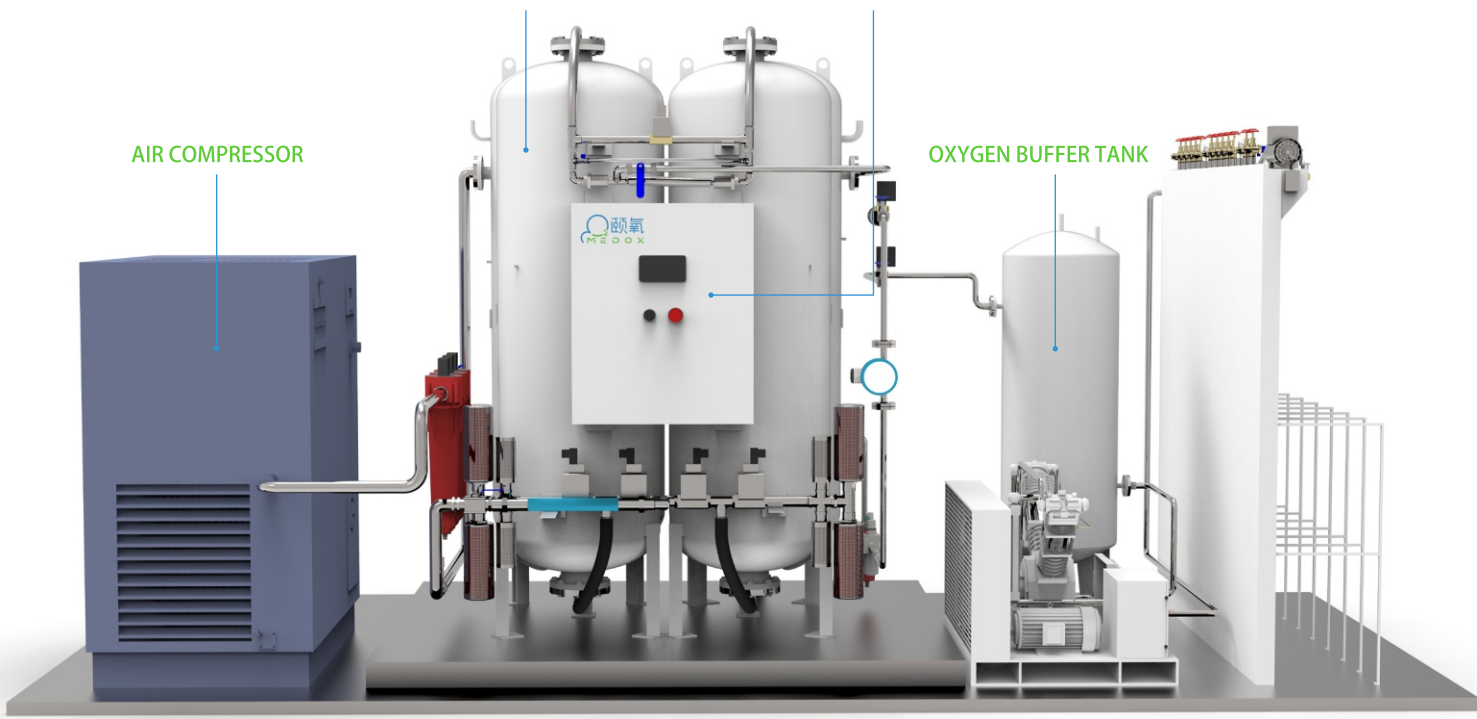


MEDICAL MOLECULAR SIEVE OXYGEN GENERATOR

The internationally recognized Airsep oxygen generator and Atlas Copco air compressor serve as the key elements of the complete oxygen generation system. Relying on the company's proprietary "PEAOI" integrated technology advantage, the system is equipped with an independently developed intelligent control and analysis cabinet, which can conduct comprehensive monitoring, analysis, and proactive management of compressed air, oxygen quality, and environmental conditions. The dual-tower PSA process is a time-tested oxygen generation technology, enabling the equipment to achieve continuous oxygen supply 24/7.

MO Series

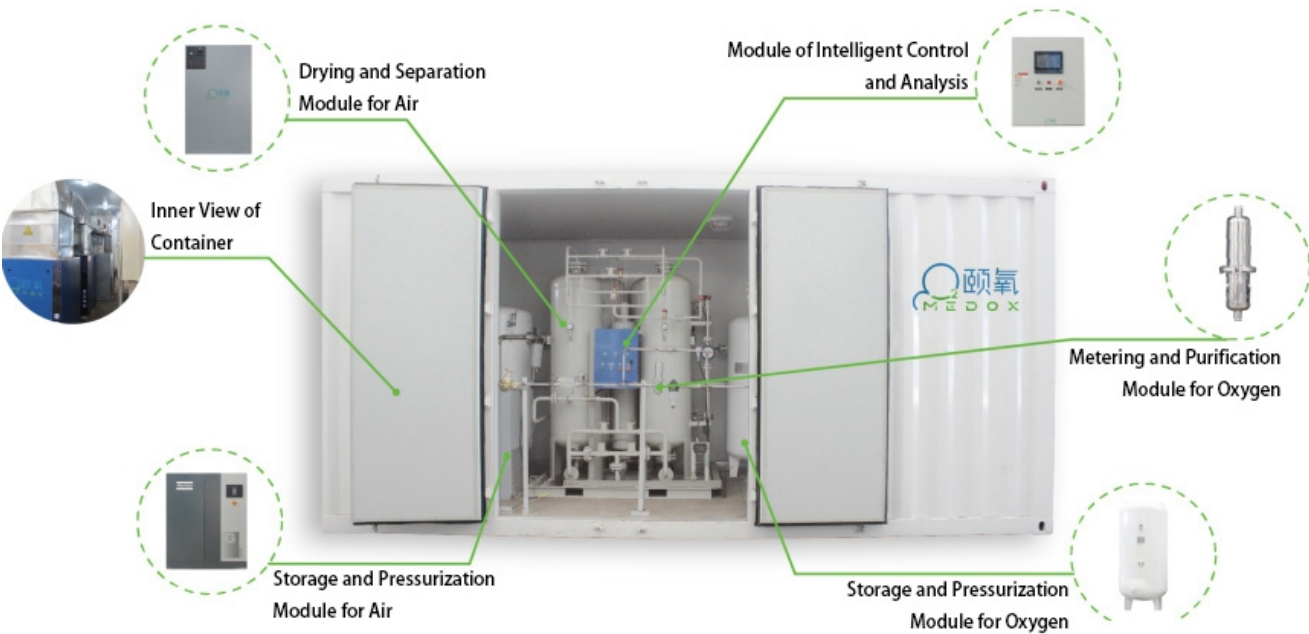
MAIN OXYGEN GENERATOR CONTRAL SYSTEM FILLING STATION (OPTIONAL)



Schematic Diagram of Medical Molecular Sieve Oxygen Generator

CONTAINERIZED & SKIDDED

Containerized or skid-mounted oxygen production systems offer a "turnkey" solution that can be installed on ground or elevated equipment platforms. They address issues like the absence of dedicated equipment rooms and limited space for users, enabling seamless integration of oxygen supply.



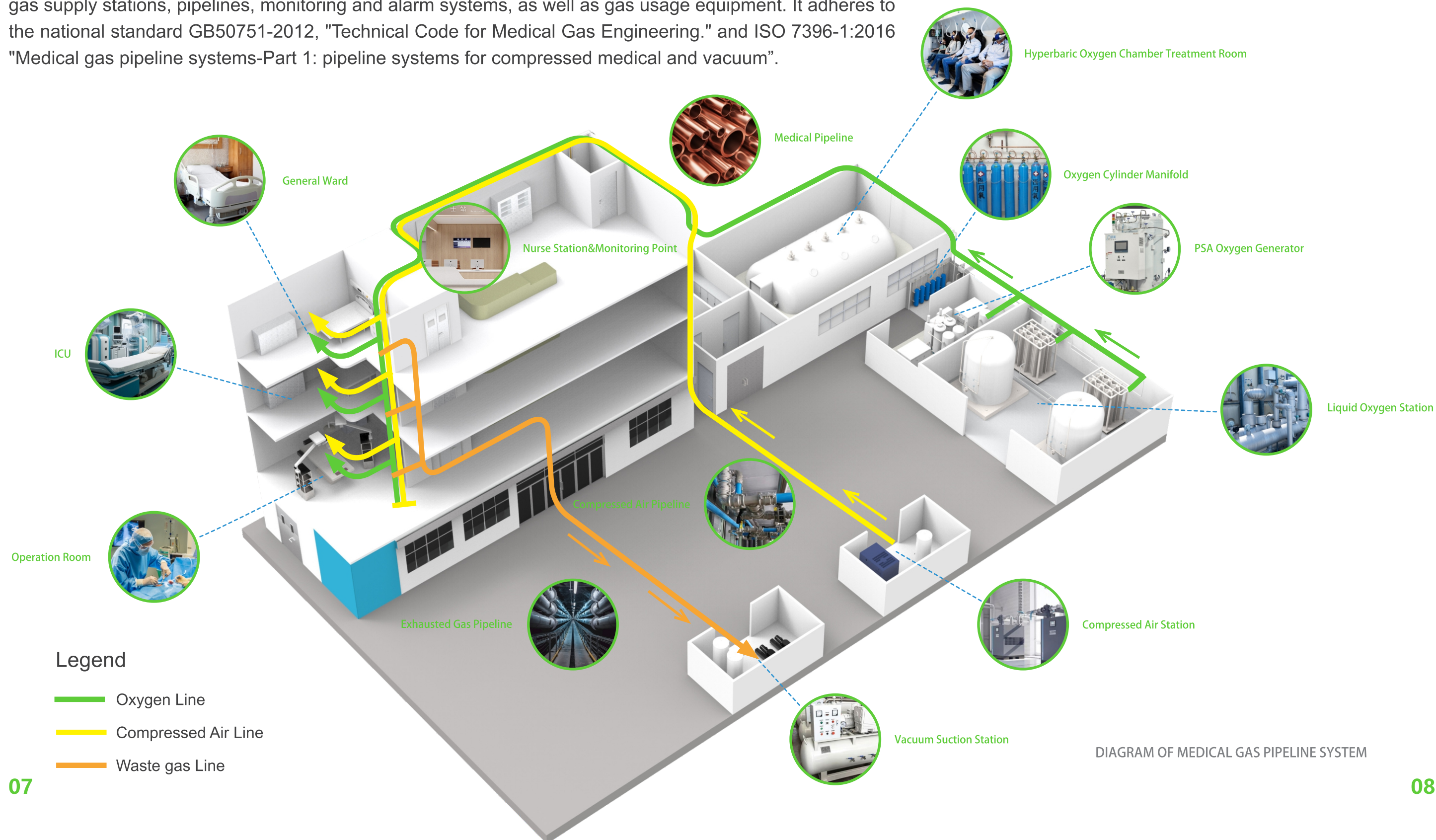
PEAOI INTEGRATED TECHNOLOGY FRAMEWORK

Medoxygen possesses a gas supply quality that surpasses the highest domestic standards.

GAS COMPO-SITION	CHINESE STANDARD XGB2021-061 GB8982-2009	Ch.P 93% O ₂	USP 93% O ₂	EP(Ph.Eur.) 93% O ₂	MEDOX OXYGEN GENERATOR
O ₂	≥ 99.5%	90.0%~96.0%	90.0%~96.0%	90.0%~96.0%	90.0%~96.0%
CO	< 0.0005%	< 0.0005%	< 0.001%	< 5 ppm	< 0.5ppm (0.00005%)
CO ₂	< 0.03%	< 0.03%	< 0.03%	< 300 ppm	< 0.01% (100ppm)
H ₂ O	< 0.0067%	< 0.0067%	-	< 67 ppm (-46°C)	< 0.5ppm (0.00005%) (-80°C)

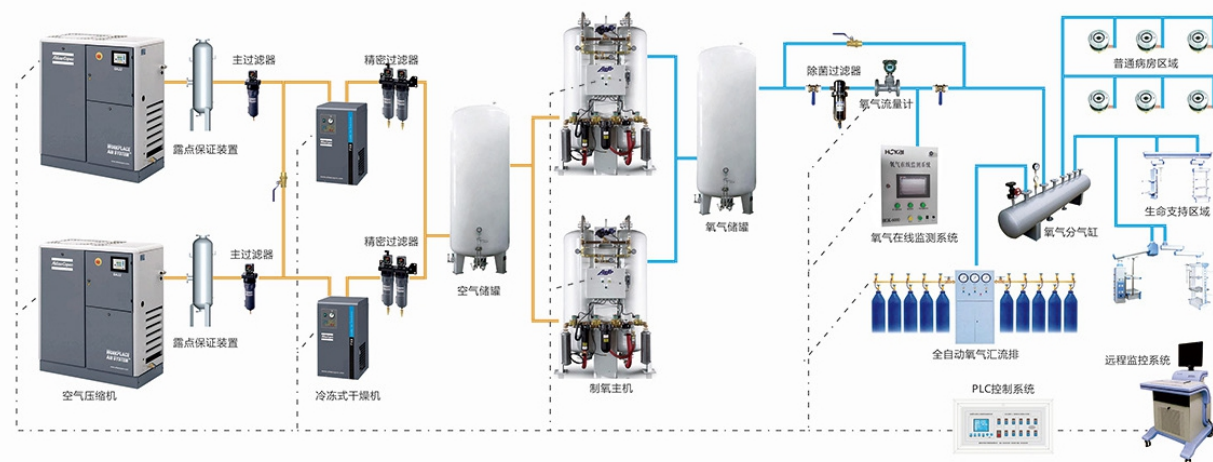
MEDICAL GAS PIPELINE SYSTEM

A medical gas pipeline system is a comprehensive assembly of equipment designed to supply medical gases or remove exhaust gases and waste liquids for patients and medical devices. This system includes gas supply stations, pipelines, monitoring and alarm systems, as well as gas usage equipment. It adheres to the national standard GB50751-2012, "Technical Code for Medical Gas Engineering." and ISO 7396-1:2016 "Medical gas pipeline systems-Part 1: pipeline systems for compressed medical and vacuum".



CENTRAL MEDICAL OXYGEN SYSTEM

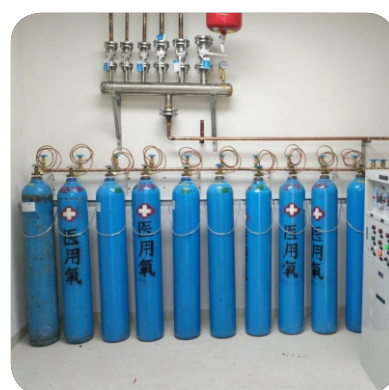
The medical center's oxygen supply infrastructure comprises a central oxygen supply station, an interconnected pipeline network, and terminal equipment located within patient wards. Three primary methods of oxygen provision are employed: oxygen generation systems, busbar distribution, and liquid oxygen storage. The selection of the most appropriate central oxygen supply system is determined by evaluating the specific requirements of the healthcare facility and the conditions of the hospital installation site. Oxygen produced or stored at the central supply station is conveyed via the pipeline network to terminal points situated in critical areas such as operating rooms, emergency departments, and various patient wards.



PROCESS FLOW DIAGRAM OF OXYGEN GENERATION SYSTEM



PSA Oxygen Generator



Oxygen Cylinder



Liquid Oxygen

OXYGEN SOURCES FOR THE CENTRAL MEDICAL OXYGEN SYSTEM

CENTRAL MEDICAL VACUUM SYSTEM

The medical center vacuum system comprises a central suction station, an interconnected pipeline network, and terminal equipment located within patient wards. The vacuum pump unit at the central suction station serves as the source of negative pressure for the suction system. By means of the vacuum pump's operation, the pipeline network attains the designated negative pressure level, thereby enabling suction functionality at terminal points in the operating room, emergency department, and various wards. This configuration supports medical applications and adheres to the standards set forth in GB50751-2012, titled "Technical Code for Medical Gas Engineering".



MEDICAL AIR COMPRESSION SYSTEM

The medical center compression system comprises a central compression station, an interconnected pipeline network, and terminal devices located within patient wards. The air compressor unit within the central compression station serves as the pressure source for the system. By means of the air compression, the pipeline network attains the designated pressure level, thereby enabling air supply with expected pressure at terminal points in operating rooms, emergency departments, and various wards.

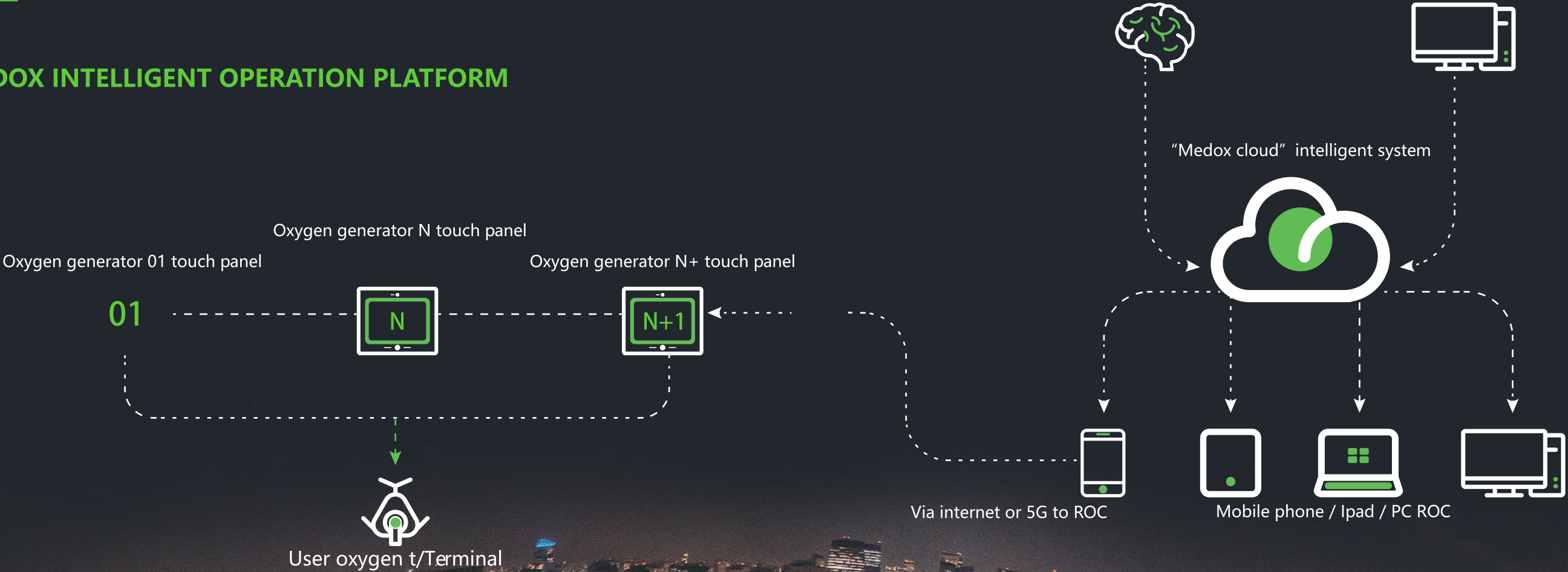


WARD TERMINAL UNIT



The bedhead unit comprises gas outlets, bedside lighting fixtures, electrical power sockets, computer interface ports, and telephone interface connections, among other components.

MEDOX INTELLIGENT OPERATION PLATFORM



INTEGRATED SERVICE OF OXYGEN GENERATION AND SUPPLY

Why choose integrated services ?

01 Safety & Convenience

On-site oxygen generation operates automatically, with safe and convenient operation. The oxygen output pressure is adjustable, and the quality and purity are balanced and stable. It can independently generate oxygen once powered on; it takes ≤30 minutes after startup to produce oxygen that meets medical standards. Equipped with a precision monitoring system, there are no potential safety hazards.

02 Technology & Autonomy

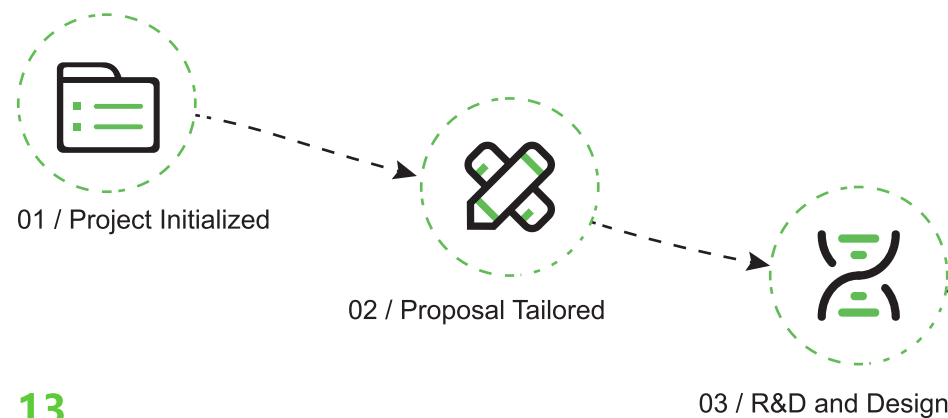
PSA oxygen generators adopt the most mainstream oxygen production technology. Both the oxygen concentration and usage flow can be monitored and checked in real-time, with no oxygen waste at all. Moreover, the machine generates oxygen independently, and the oxygen can be directly fed into the pipeline system. This makes hospital management more scientific and management methods modernized, enabling hospitals to be free from the impact of oxygen market costs.

03 Economy & Reliability

Starting from the goal of reducing hospitals' long-term total oxygen consumption costs, the company selects more advanced equipment components and more intelligent control systems to enhance equipment reliability. It also operates oxygen-generating equipment in accordance with first-class technical management standards, allowing hospitals to allocate their limited human resources to core business operations.

04 Proactive Maintenance & Repair

All equipment deployed by the company is equipped with a remote intelligent early warning system. Specifically, our professional intelligent control engineers conduct real-time dynamic analysis and follow up on the operating status of the equipment. Meanwhile, the company's after-sales personnel proactively go to inspect and maintain the oxygen-generating equipment. This ensures that the equipment operates in an optimal state for a long time and guarantees the stable operation of the entire set of equipment.



12 / Regular Inspection



11 / Maintenance Management



10 / Special Equipment Management



09 / Remote Monitoring



"54321" After-sales service mode

05 Minute quick response

The equipment status is monitored around the clock, and responses to alarmed equipment are made within 5 minutes with necessary background interventions implemented.

04 Layer technical guarantee

Local operation and maintenance team, strong ROC team, senior air separation expert team, and strategic supplier team.

03 Month equipment inspection and maintenance

When the equipment is operating normally, the operation and maintenance team will conduct on-site inspections and maintenance on the equipment every 3 months.

02 hour customized solution

In response to the on-site feedback from customers regarding oxygen usage, a solution and implementation details will be formulated within 2 hours.

01 Day with an itinerary

In the event of equipment failure, technical service personnel will arrange the corresponding maintenance itinerary within one working day.

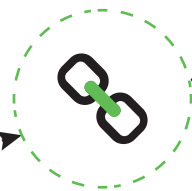


08 / Project Documents Achieve

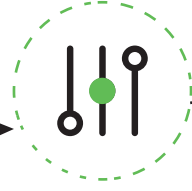
07 / Final Acceptance



06 / On-site Commissioning



05 / Workshop Testing



04 / Workshop Production

