

ELK-OXY-5P

OXYGEN GENERATION SYSTEM



ELK-OXY-5P OXYGEN GENERATION SYSTEM

About

ELK-OXY is a high-tech enterprise specializing in medical gas solutions. We are committed to providing integrated PSA oxygen generation systems. Our products are widely used in the medical, healthcare, and diffused oxygen industries, and we can customize efficient and reliable gas solutions according to customers' special needs. At present, ELK-OXY has served numerous customers across the country.

The company strictly implements international quality management systems such as ISO 9001, and ISO 13485, and continuously creates value for customers with high-quality products and services.

The problems that typical oxygen supply methods need to solve

Additional Costs

- High costs for cylinder/liquid oxygen tank rental, transportation, and on going supply.
- Installation, assembly, and maintenance costs for bulk liquid storage.
- Significant recurring expenses.



Logistics and Safety

- Hazards associated with frequent truck transportation.
- High-pressure storage risks explosion due to over pressure or leakage.
- Oxygen cylinders or liquid tanks are potential hazards.
- Cryogenic liquids can rapidly generate large volumes of flammable or oxygen-enriched atmosphere.



Losses and Wast

- Inability to fully utilize purchased gas leading to residual waste.
- Bulk storage requires constant pressure regulation and monitoring to prevent losses.
- Waste from cylinders and industrial gases often returned before being fully used
- Downtime = loss of revenue



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Benefits You Gain

Performance Guarantee

- Reliability based on decades of data and technical experience, with strict factory testing of function and performance.
- Easy operation reduces dependency on specialized personnel and related labor costs.
- One-year warranty.

Safety and Reliability

- Eliminates safety hazards associated with transporting and storing oxygen cylinders or liquid tanks.

Environmental Protection

- On-demand production matches air consumption to output, resulting in higher energy efficiency.
- Reduces carbon footprint by eliminating cylinder transport and related combustion emissions.

Easy Maintenance

- Modular design simplifies operation, requiring only basic training.
- Key components from high-quality suppliers minimize maintenance needs and extend service life.

Suitable for Various Applications

- Maximum working pressure 5-8 bar (model dependent).
- Can provide stable oxygen purity of approximately 80%-95%.
- Operates on 100-240V AC (50/60Hz) power supply.

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Fully Integrated Design

Compact structure for easy installation
100% performance tested before shipment to ensure quality.



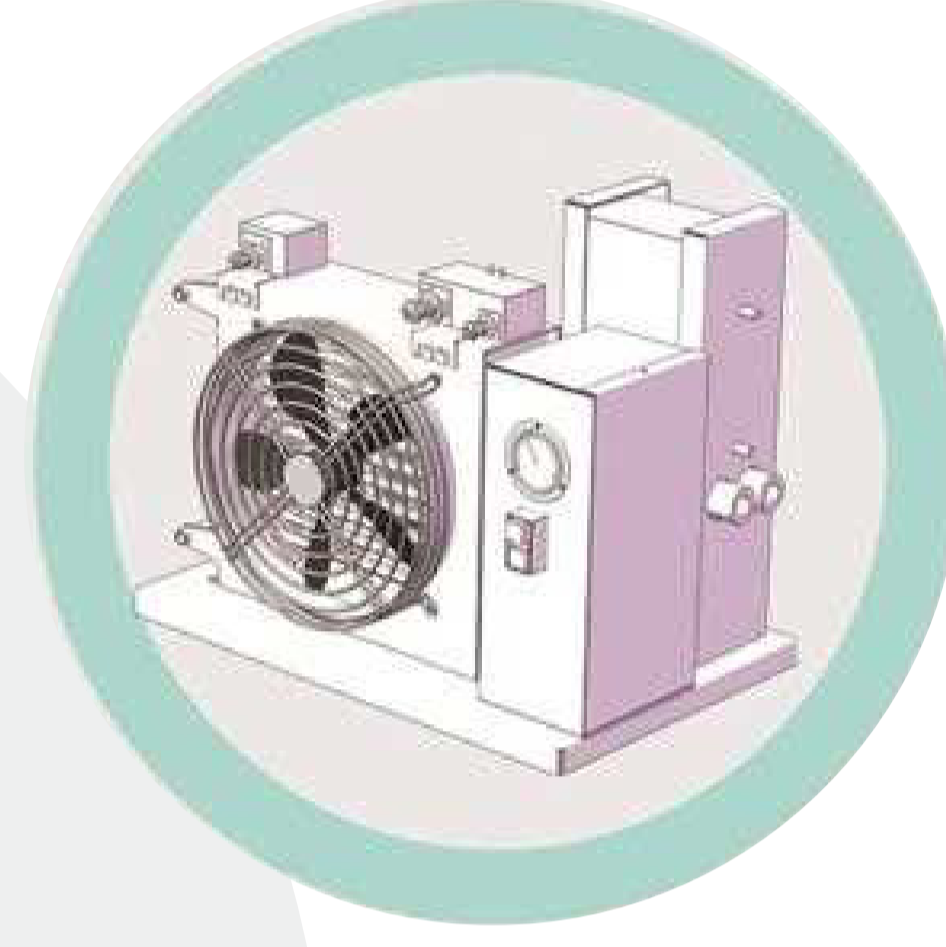
Air Compressor

Permanent Magnet, Variable Frequency,
Oil-cooled Motor High transmission efficiency / No belt replacement needed.



Oxygen Generation Main Unit

Utilizes modular design Compact size for easy expansion.



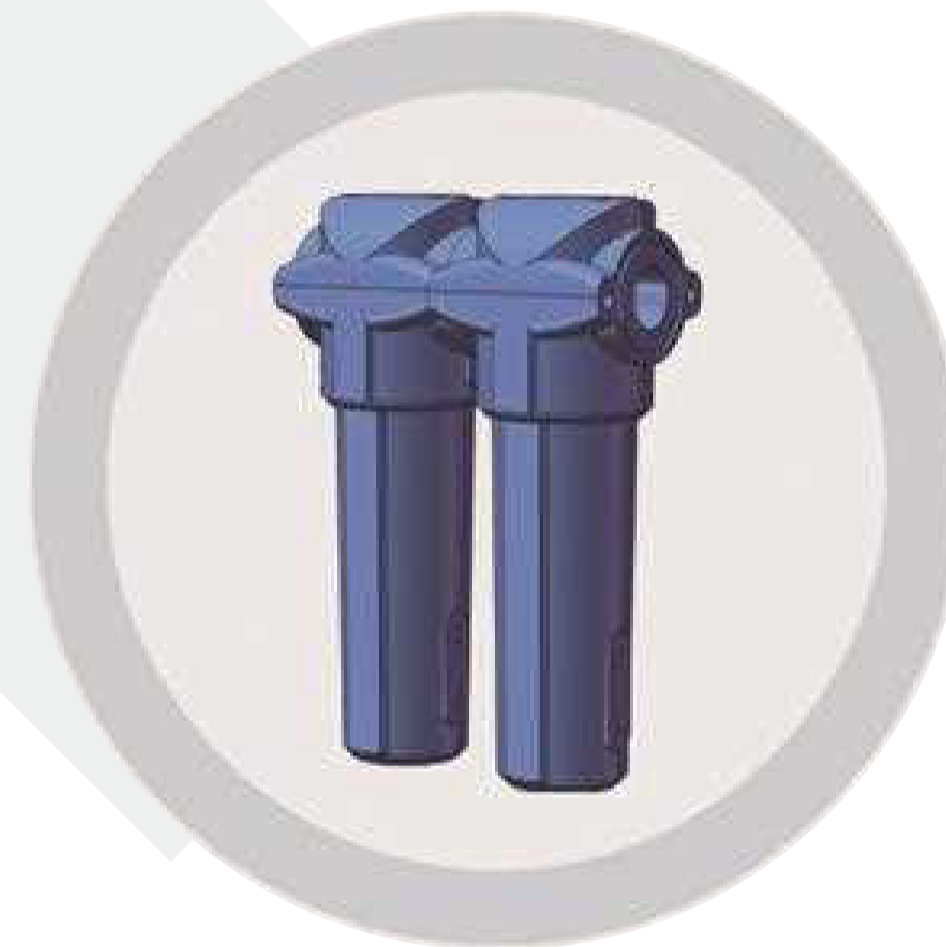
Air Dryer

Generous design margin ensures stable operation even in high-temperature environments.



Oxygen Analyzer

High-quality oxygen output meets the 93% purity standard stipulated by national medical regulations.



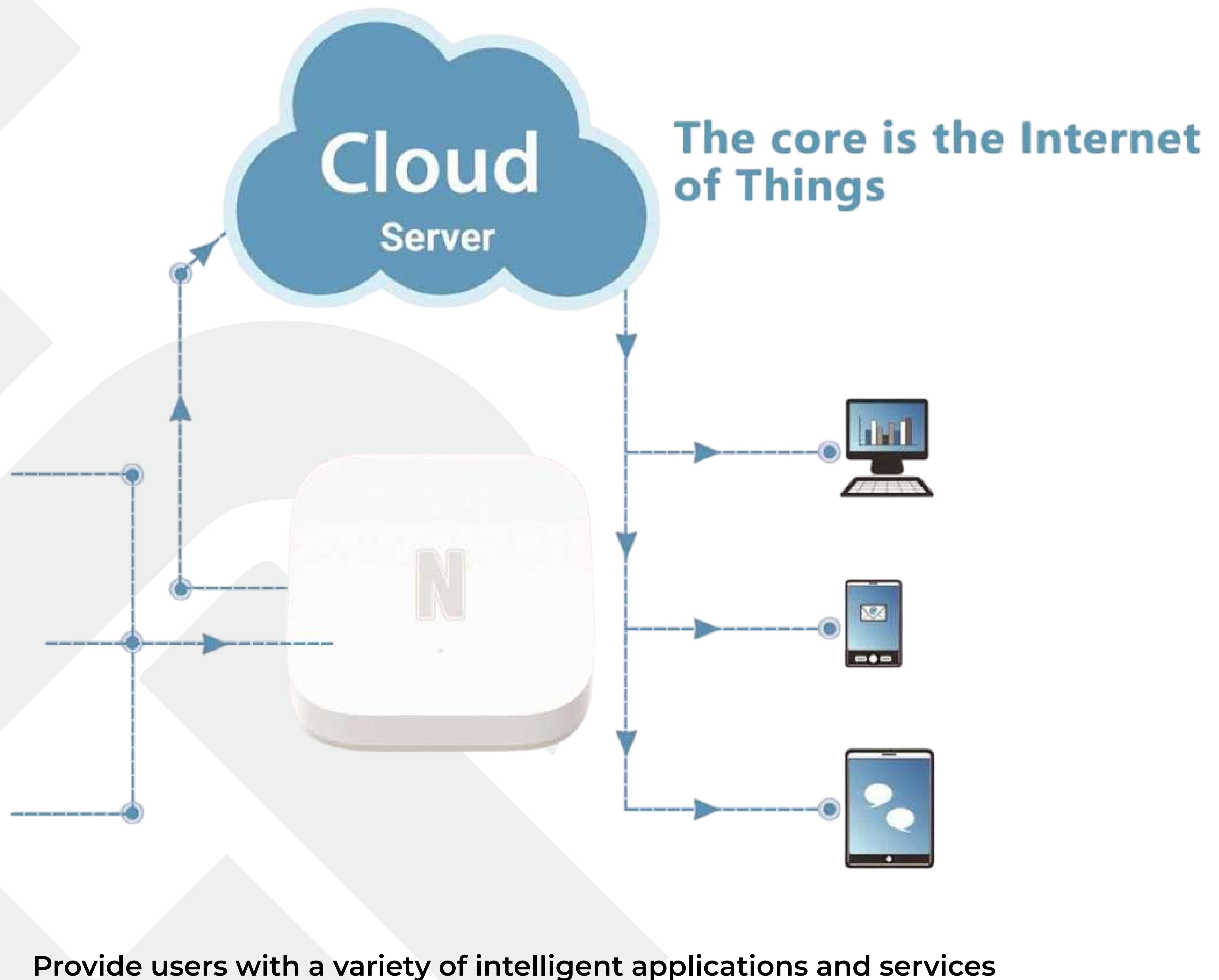
Filtration System

3-stage precision filtration system Ensures clean oxygen output.

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AI Control System

AI control system is a device used for intelligent centralized control of oxygen generators. It can detect data parameters through sensors and control the start and stop of each oxygen generator through intelligent analysis, so that the oxygen generator can work more energy-saving and efficient.



AI Control

By controlling the oxygen consumption and pressure, and flexibly managing multiple units, the oxygen supply is effectively stabilized, response speed is improved, and energy consumption reduction are achieved.

Automatic backup

Automatically manage the cumulative operating time of each unit and greatly reducing the maintenance cost of manual labor.

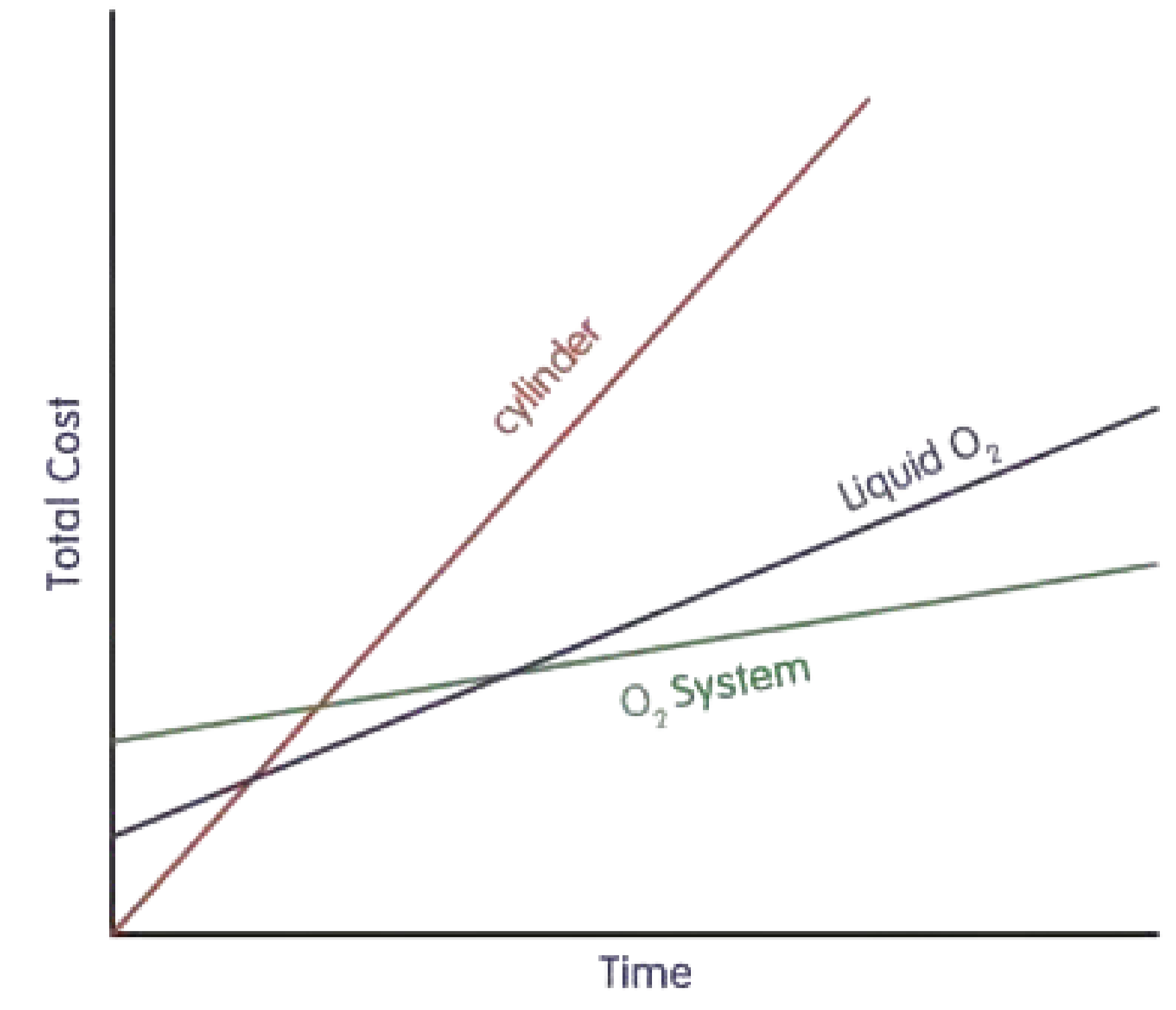
Online Monitoring

The oxygen concentration, oxygen flow rate and other key parameters are monitored in real time through the intelligent control unit, displayed through numerical values and alarms, and it can automatically switch and alarm, achieving 24 hour uninterrupted operation.

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All-in-one Oxygen Generation System

The integrated PSA oxygen generation system provides safe, reliable and low-cost high-purity oxygen. Its unique integrated design and energy-saving features have significant advantages over traditional oxygen generators and oxygen cylinder/liquid oxygen modes. Users can achieve on-site oxygen production on demand. The investment cost is usually recovered within 6 to 24 months, and the long-term cost is much lower than that of external oxygen supply



Product Parameters

The product parameter content in the sample is only applicable to the current version. If there are any changes to the data base, no separate notice will be given.

Model	O ₂ Rates m ³ /h	O ₂ Purity %(V/V)	O ₂ Pressure MPa	Noice dB (A)	L*W*H mm	Weight Kg	Power Supply	Power kW
ELK-OXY-05P	5	93±3	0.45 ~ 0.55	≤75 dB at 1m	2000*880*1790	860	Three Phase Five-wire system 380V±10% 50Hz	7.5
ELK-OXY-10P	10				2000*880*1790	1050		15
ELK-OXY-20P	20			3200*1250*1880	1280	30		
ELK-OXY-30P	30			3200*1250*1880	1320	37		

- At an inlet pressure of 0.7bar and inlet temperature of 20°C to 25°C, for outlet flow rates under all conditions, please contact us.
- If the pressure exceeds 1bar, please contact us.
- For special environments such as high altitude, low temperature, high humidity and sandy conditions, please contact us.
- For export certification, please contact us.
- The data and information provided are for reference only.