




**OXAIR<sup>®</sup>**

Oxygen & Nitrogen Systems

**Advanced on-site gas systems**

for demanding environments



Australian—engineered and tested oxygen  
and nitrogen solutions – **trusted on site in  
28 countries worldwide.**

# Australian born – Global citizen

Established in Perth Western Australia 36 years ago, Oxair has grown to become a leading manufacturer of Oxygen and Nitrogen gas process systems for shipboard and land-based use internationally.

## Custom Engineered

All our oxygen and nitrogen gas solutions are custom engineered, assembled and tested to the highest Australian standards – before being commissioned on-site internationally.

## Harshest Conditions

Having consistently proven our ability to deliver in some of the harshest conditions in Australia, we are proud to have over 600+ installations in 28 countries across six continents.

## Core Values

As a team, we share a respect for the customer, the countries and cultures we operate in and a shared mission to deliver consistently excellent performance – even in the harshest conditions worldwide.

## Our Future Growth

Under our new leadership team, we are looking to grow by using innovation to better serve our customers' needs, by forming new win-win partnerships with our suppliers and through strategic acquisitions that align with our core business.



600+

Installations

28

Countries

6

Continents



ExxonMobil



Santos



Newmont



BHP



FLSMIDTH



**BARRICK**

**GOLDEN STAR**



**eagleview™**

**ON SITE**  
Gas Systems

**Gardner**  
**Denver**



**THE PERTH MINT**  
AUSTRALIA

**Quadrant**  
Energy



**Evolution**  
MINING

**DE NORA**

**CCAPS**

**Oil Search**

# Oxygen Generators

**Safe, efficient, and reliable on-site oxygen solutions for industry and healthcare.**

Oxair designs and manufactures cost-effective oxygen generators for gold mining, hospitals, medical facilities, aquaculture, and other specialised applications.

## Oxygen Plant Rental

To find out more about our oxygen plant rental offerings please email [sales@oxair.com.au](mailto:sales@oxair.com.au)

### Key Benefits

- **Lower energy use:** Lower air consumption compared to other systems.
- **Reliable performance:** PLC control with data logging, multiple output options, remote monitoring, and diagnostic analysis.
- **Proven technology:** HMI touchscreen interface with historical backup data.
- **Durability:** High-cycle process valves engineered for extreme environments and reduced maintenance.
- **Safety & environment:** Advanced noise control technology for quieter, safer operations.





## Applications

### Gold Mining

Robust, low-maintenance systems for harsh sites; oxygen enhances cyanide reactions and reduces energy consumption.

### Medical Facilities

Constant, on-site oxygen supply, safeguarding patients and staff.

### Aquaculture & Farming

Improved oxygenation for healthier, more productive systems.

### Industrial Uses

Chemical, petrochemical, oil & gas, and other processing industries.

# Nitrogen Generators

**Reliable, high-purity nitrogen supply for industry and healthcare.**

Oxair designs and manufactures Pressure Swing Adsorption (PSA) nitrogen generators that provide on-site nitrogen, reducing costs and improving safety compared with traditional cylinder or bulk delivery methods.

## Key Benefits

- **Cost-effective:** Generate your own supply in-house.
- **High purity:** Nitrogen purities from 95% to 99.99%.
- **Compact & efficient:** Ideal for installations with limited space. We can help design the layout to match your available space.
- **Low maintenance:** Minimal moving parts; small systems' process valves last 6–8 years; large systems' actuators withstand 4 million cycles.
- **Safe operation:** Low-pressure gas eliminates risks from high-pressure cylinders or cryogenic storage.
- **Flexible control:** Microprocessor (PLC) control allows unattended operation and automatic economiser for low-demand periods.
- **Quiet operation:** Proprietary muffler design reduces noise levels.





## Applications

### Marine & Shipboard

Fuel tank inerting, pipeline protection.

### Electronics & Semiconductor

Controlled atmospheres for manufacturing.

### Food & Beverage

Packaging, bottling, and preservation.

### Metal Fabrication

Laser cutting and welding atmospheres.

### Pharmaceutical & Healthcare

Controlled environments and processing.

### Oil & Gas

Refinery and plant applications requiring reliable nitrogen supply.



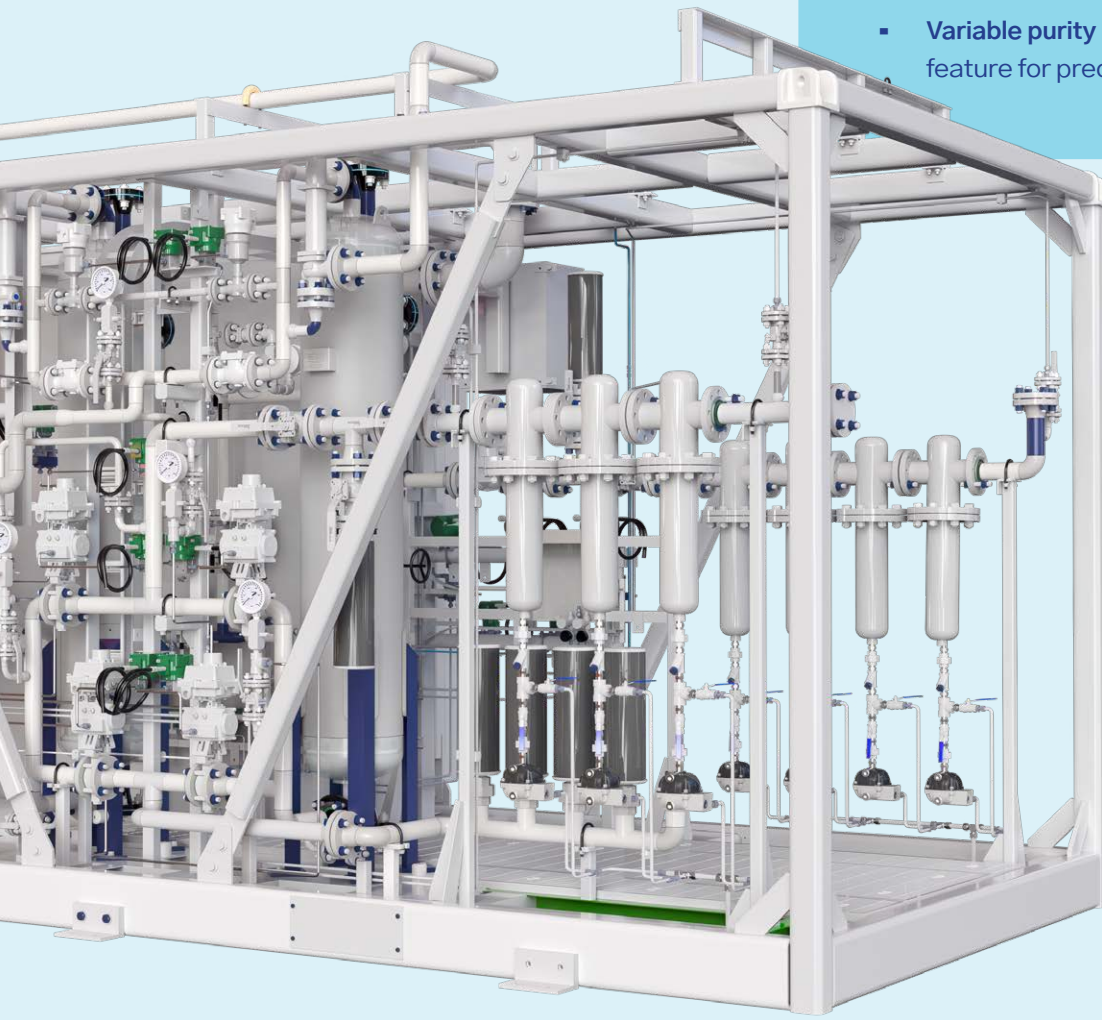
# Nitrogen Membranes

**Cost-effective, flexible, and reliable nitrogen supply using membrane technology.**

Oxair designs, fabricates, supplies, and installs nitrogen membrane systems for industries worldwide, including **oil and gas, pharmaceuticals, food & beverage, and packaging.**

## Key Benefits

- Reduce nitrogen supply costs compared to conventional cylinders and tanks.
- **Instant availability:** Nitrogen on specification within minutes of start-up.
- **Flexible & scalable:** Add more membranes to increase flow as demand grows.
- **Compact design:** Cabinets fit easily into existing facilities.
- **Low maintenance:** Simple design with few moving parts ensures reliability.
- **Automatic control:** Economiser and standby during low demand for energy savings.
- **Variable purity control:** Standard feature for precise nitrogen delivery.



## Nitrogen Plant Rental

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## Applications

### Industrial Manufacturing

Steel, glass, textiles, wastewater treatment.

### Pharmaceuticals & Healthcare

Reliable, high-purity nitrogen supply.

### Food & Beverage Packaging

Safe and cost-effective inerting of products.

### Oil & Gas Production

Large-volume nitrogen for processes and safety.

### Mobile & Temporary Operations

fully transportable membrane systems with integrated power generation.

### Air Products and Chemicals Inc.

Oxair has worked with Air Products and Chemicals Inc., for over 25 years.

Key features include:

- Hollow fibre membranes selectively remove oxygen, water vapour, and carbon dioxide from compressed air.
- Adjustable purity and flow rates to suit individual site requirements.
- Rapid cold start-up: Delivers nitrogen at required purity within minutes.
- System self-protection: Built-in safeguards ensure operational reliability.

# Desiccant Air Dryers

**Reliable, efficient, and low-maintenance dry air solutions for industry.**

Oxair desiccant air dryers reduce downtime, maintenance costs, and equipment wear, paying for themselves in less than a year. Suitable for food, beverage, pharmaceutical, and industrial sectors, these systems maintain optimal compressed air quality for maximum productivity.



## Key Benefits

- **Reduced maintenance & downtime:** Protects equipment and extends service life of air tools, motors, and cylinders.
- **Consistent dry air:** Eliminates water, ice, and freeze-up in low ambient temperatures.
- **Fast installation:** Delivered fully assembled, piped, and wired with activated alumina desiccant.
- **Flexible control:** Electric or pneumatic systems, PLC-controlled with reliable HMI touchscreen.
- **Wide operating range:** Flows from 100 SCFM to 10,000 SCFM and pressures from 100 psi to 500 psi.
- **Safety & compliance:** AS-1210 or ASME V111 stamped pressure vessels and certified lifting frames.
- **Noise control:** Super quiet muffler reduces operational noise.
- **Non-electrical version:** We offer a non-electrical version with pressure ranges up to 35 BAR.



# Applications

**Food & Beverage**

**Pharmaceutical**

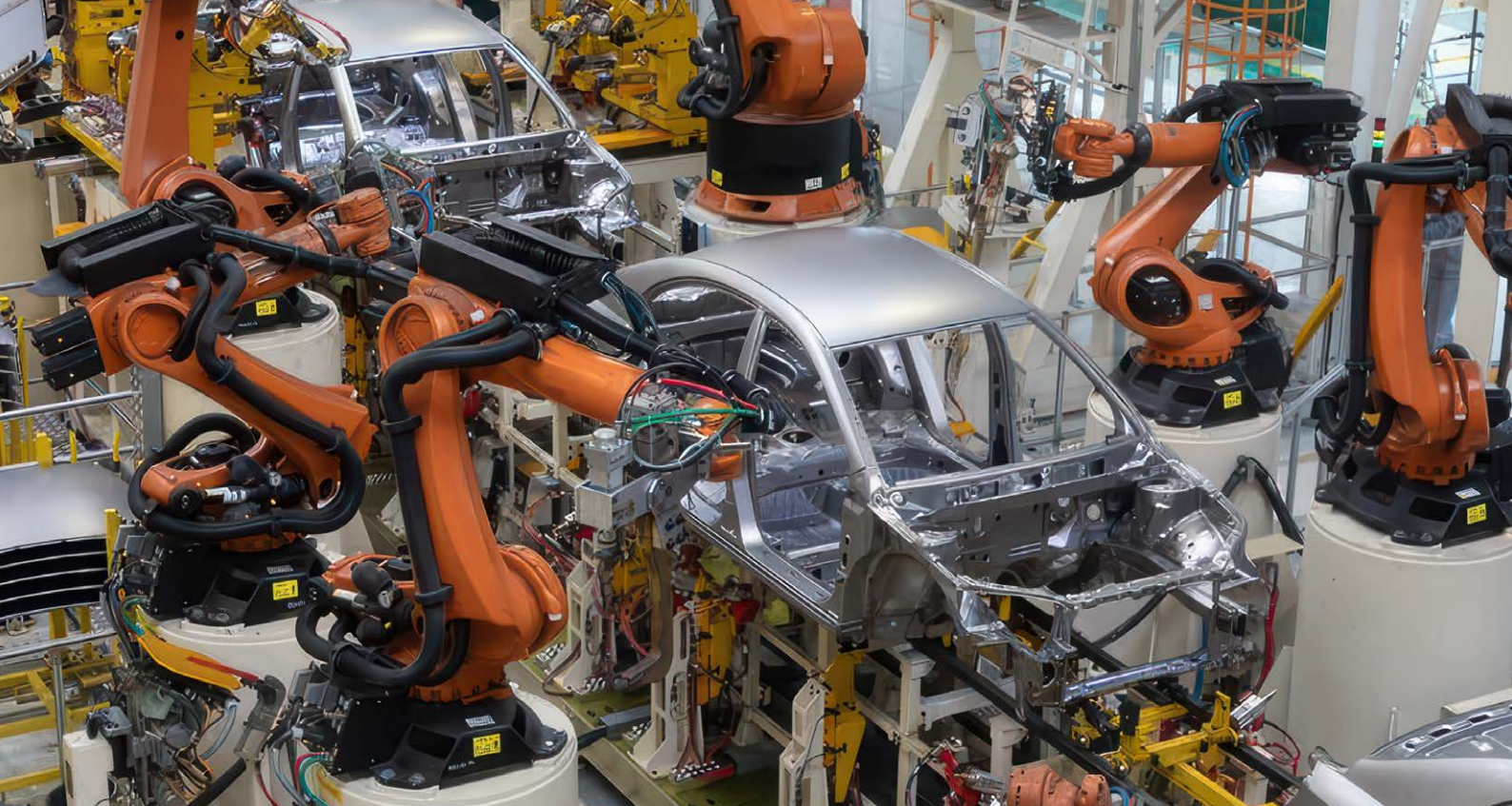
**Industrial**

# Pressure Vessels and Filtration Systems

**High-quality, engineered solutions for air and gas treatment across industrial sectors.**

Oxair designs, fabricates, and installs a complete range of pressure vessels, filtration systems, mist eliminators, and carbon adsorption towers for industries including oil & gas, chemical processing, manufacturing, petrochemical, pulp & paper, automotive, mining, and more.





## Applications

**Oil & gas**  
**Petrochemical**  
**Chemical processing**

**Manufacturing**  
**Pulp & paper**

**Automotive**  
**Mining**









For more information about any of our products, or to talk to one of our technical experts simply send an email to [sales@oxair.com.au](mailto:sales@oxair.com.au)

Oxygen & Nitrogen Gas Generators

Engineered & Tested to Australian Standards

600+ Installations Worldwide

28 Countries – 6 Continents

Cost-effective solutions

Quality management system ISO 9001:2015 certified

[oxair.com.au](http://oxair.com.au)

Technical sales enquiries: [sales@oxair.com.au](mailto:sales@oxair.com.au)

The logo for OXAIR features the word "OXAIR" in a bold, white, sans-serif font. The letter "O" is stylized with a white orbital ring around it. A registered trademark symbol (®) is located to the upper right of the "R".

Oxygen & Nitrogen Systems