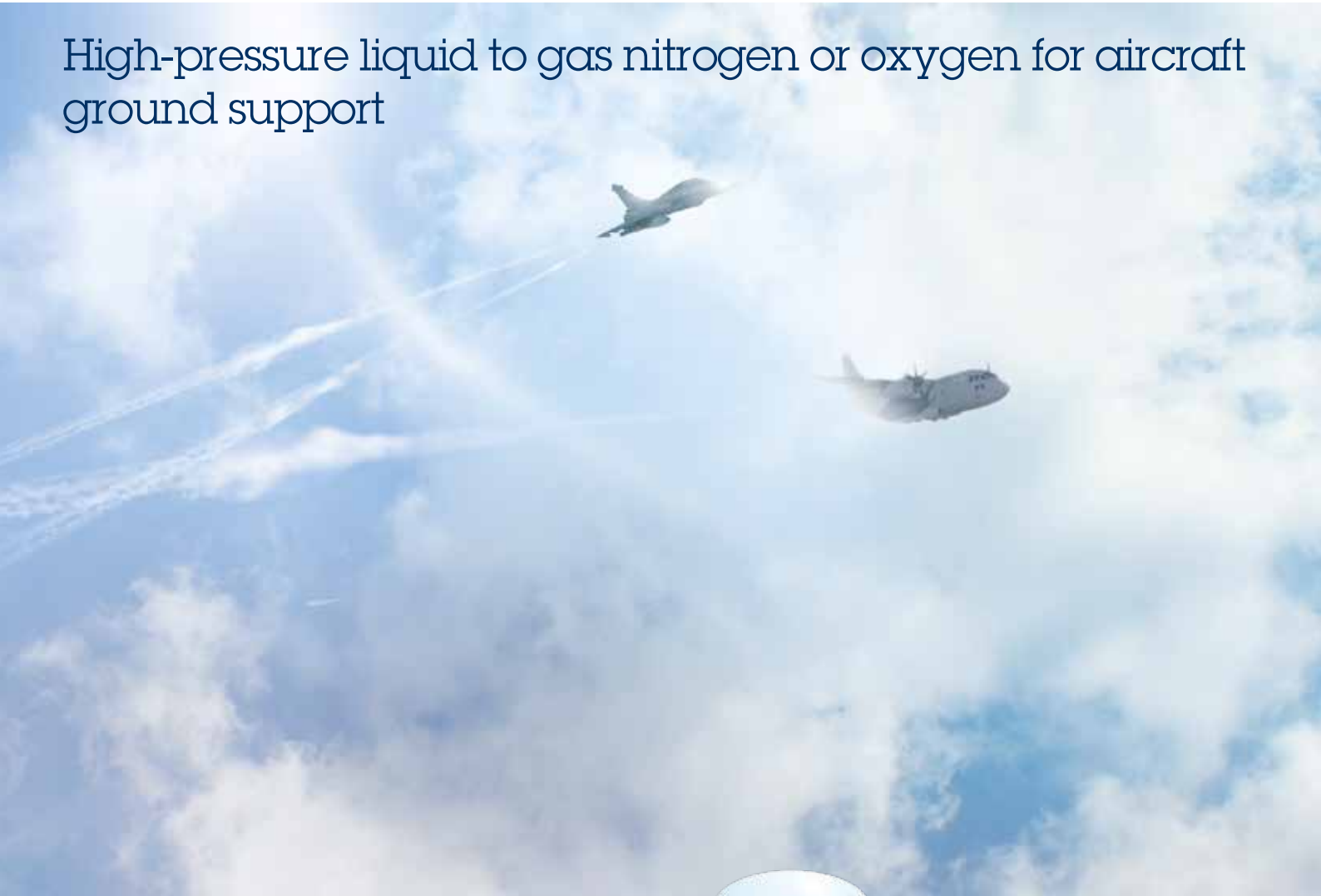


Gaseous Pressured Vaporization unit

GPV

High-pressure liquid to gas nitrogen or oxygen for aircraft ground support



- ✓ Production capacity: 2 tons per day of liquid oxygen at 99.5% purity
- ✓ Compliant with STANAG 7106 agreement
- ✓ Autonomous on-site production: elimination of logistics restraints
- ✓ Performances guaranteed from a world leader in gases technologies and cryogenics



The compact liquid oxygen plant is a logistics-free solution to supply remote Air Force bases with aviation liquid oxygen. It is compliant with aeronautics standards: oxygen purity 99.5%.

Easy operation

- Simplification of standard distillation design to limit equipment and maintenance
- Automatic operation of the production unit
- Short start-up times

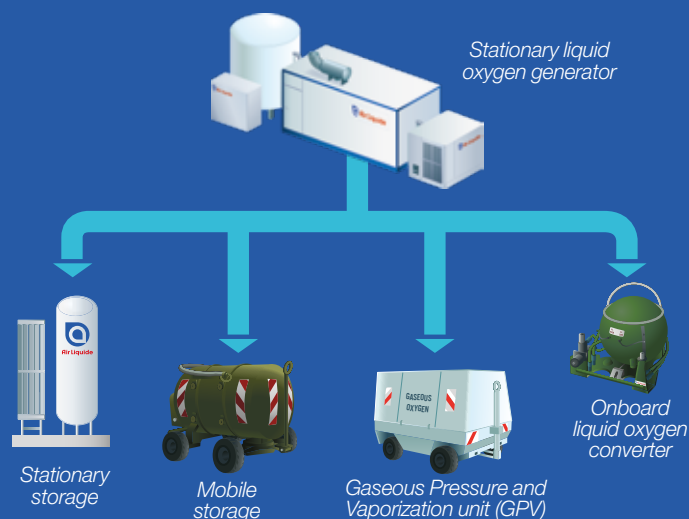
Optimized layout to offer a very compact solution with limited footprint

- No civil engineering modification
- Maximum height: 4m
- Floor space: 35m²
- Weight of the cold box: < 10 tons

Applications

Autonomous and logistics-free system designed for remote Air Force bases:

- Oxygen converters filling for aircraft equipped with liquid oxygen for pilots breathing needs
- Stationary and mobile oxygen storage tanks filling
- All equipment listed above available from Air Liquide



Performances

Liquid oxygen production capacity: 2 tons per day = 60Nm³/h

O₂ purity: 99.5% aviation quality according to STANAG 7106

- Maximum water content: 5mg/m³ at 15°C and 760mm Hg (101.3kPa) (7 ppm/vol.) (dew point -63°C)
- Minor contaminants compliant with STANAG, in particular CO₂ (< 5ppm)

Power consumption: 300kW

Design conditions: 101.3kPa, sea level, 20°C, 70% Relative Humidity (RH)

Standard operating conditions: external temperature -20°C/+45°C, 70% RH with tropicalization optimization possible

Air Liquide expertise: performances guaranteed

- Well-proven cryogenic technology
- Adapted to harsh environment
- High reliability and improved safety

Associated services

- Commissioning
- Maintenance
- Customized support
- Spare parts
- Training

Contacts

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creative oxygen

The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 66,000 employees and serves more than 3.6 million customers and patients.