

Liquid Oxygen (LOx) Plant

A stationary liquid oxygen generator for aircraft ground support and supply of aviation breathing oxygen



- ✓ 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

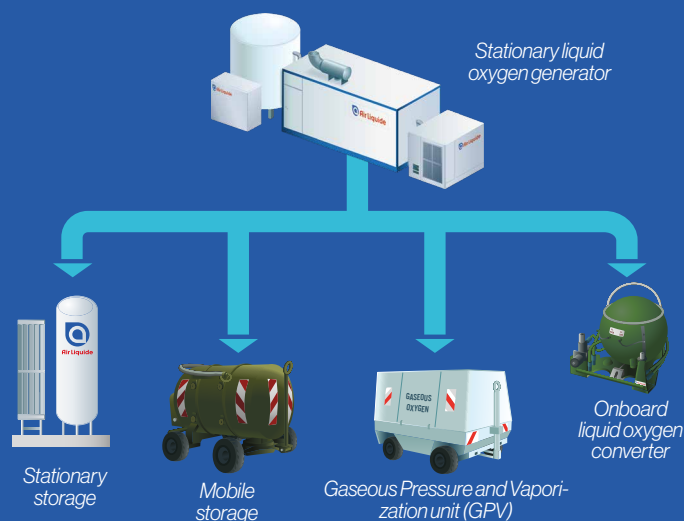
Optimized layout to offer a very compact solution with limited footprint

- No civil engineering modification
- Maximum height: 4m
- Floor space: 35m²
- Weight of the cold box: < 0 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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