

# OBOGS for fighter aircraft

On-board oxygen generating system

*Unequaled performance guaranteed through a unique mechatronic design*



This autonomous system generation produces unlimited oxygen enriched air on board fighter aircraft or training aircraft, to meet all the physiological needs (breathable gas and anti-G protection) of one or two pilots, for any long or complex mission.

# Why should you switch to OBOGS?

- To increase the operational reliability of the aircraft (unlimited cruising range: oxygen is no longer a limiting factor for flight range)
- To reduce ground and logistics supports
- To avoid fire and explosion hazards in relation to logistics and the use of liquid or high pressure gaseous oxygen
- To improve flight safety



Back up emergency oxygen unit



Oxygen regulator and anti-G system

## The pros of Air Liquide technology and design:

- Responsive and accurate regulation of the gas
- Wide range of operating pressure, beyond the standard values (particularly at very low inlet pressure)
- Eased system diagnosis and management with no impact on reliability (Continuous Build-In Test)
- Very adaptative and flexible design in order to meet any requirement for control of performances: flow, pressure, oxygen content schedules
- Integrated monitoring device possible in option
- Compact lightweight system.

## The pros of Air Liquide expertise:

Our expertise in the fields of gases separation, analysis and storage allows to offer a global solution adaptable to your needs, integrating:

- Definition of specifications
- Design
- Manufacturing
- Integration
- Full support

# Why should you select an Air Liquide's OBOGS?

The Air Liquide's OBOGS has several pros coming from its mechatronic design and the world wide recognized gas expertise of the Group



Molecular sieve oxygen concentrator



## Main technical characteristics

- Weight of concentrator: < 10.3 kg
- Length x width x height  $\approx$  350 x 350 x 200 mm
- Minimum inlet pressure: < 5 psig relative to cabin pressure
- Electrical supply: 28 Vdc or 115 Vac
- Power consumption < 5 A

## References

- Oxygen regulator and anti-G system for F-35 - Lockheed Martin
- OBOGS for M346 - Alenia Aermacchi
- OBOGS for Rafale - Dassault Aviation
- OBOGS for L159 - Aero Vodochody
- OBOGS for Mirage 2000 - Dassault Aviation

## Contacts

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The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 68,000 employees and serves more than 3 million customers and patients\*. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

\* Following the acquisition of Airgas on 23 May 2016