Autonomous liquid and gaseous oxygen generator

Oxyplane

A logistics-free solution to supply isolated sites with aviation breathing oxygen

- Autonomous and compact
- Elimination of logistics restraints
- Aviation oxygen purity 99.5% (compliant with STANAG 7106 agreement)
- Air, sea, train and road transportable
- Easy to operate (only one person needed)
- Very low maintenance
- Compliant with NATO standards
How does it work?

Oxyplane is a robust and reliable system based on air separation technology combining high purity and liquefaction. Inside the container there is an oxygen generating system composed of a gaseous oxygen generator, two P.S.A’s (Pressure Swing Adsorption), a purification loop, as well as a filling station for liquid and gaseous oxygen.

The liquid filling ramp can load-up at the same time two converters of 5, 8 or 10 litres, in approximately 20 minutes. The converters can then be taken directly aboard aircraft with breathable oxygen.

The generator also enables high-pressure gas production for filling emergency oxygen cylinders at 200 bar.

Monitoring, analysis and control are managed by a human interface machine which provides all of the necessary information regarding filling, purity and pressure, which makes it easy to use.

Technical characteristics & performances

- Utilities: electricity only – 45 kW/400 VAC / 50 Hz
- Electrical power supply: 3 - phased + neutral + ground
- ISO 20-feet container
- Liquid oxygen production capacity: 60 litres/day
- Liquid tank capacity: 120 litres
- Gas oxygen production capacity at 200 bar: 2 Nm³/h
- Air cooling system in the container
- Compliant with NATO standards

O₂ purity

99.5% aviation quality according to STANAG 7106:
- Maximum water content: 7 ppm/vol. / dew point -63°C
- Maximum CO₂ content < 5 ppm

Environmental conditions

Altitude = 0 m - External temperature: -30°C /+50°C
- Humidity max: 90% HR
Altitude = 1,500 m - External temperature: -30°C /+40°C
- Humidity max: 90% HR

Associated services

- Preventive and curative maintenance
- Technical assistance
- Spare parts
- Training

Contacts

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