

The Oxygen Production Process

The OZP-OXYSEP 35 OZOPURE oxygen generators extract the available oxygen in the ambient air from the other gases by applying the Pressure Swing Adsorption (PSA) technology. During the PSA process compressed, cleaned ambient air is led to a molecular sieve bed, which allows the oxygen to pass through as a product gas, but adsorbs other gases. The sieve releases the adsorbed gases to the atmosphere, when the outlet valve is closed and the bed pressure returns to ambient pressure. Afterwards, the bed will be purged with oxygen before fresh compressed air will enter for a new production cycle. In order to guarantee a constant product flow, the OZOPURE oxygen generators use two molecular sieve beds, which alternatively switch between the adsorption and the regeneration phase. Under normal operating conditions and with correct maintenance the molecular sieve beds will have an almost indefinite lifetime.

Standard Applications

- Aquaculture
- Feed Gas for Ozone Generators
- Foundries
- Glass & Neon Manufacturing
- Gold & Silver Leaching, Oxygen Lancing
- NOx Reduction for Fuel Burners
- Water Treatment

Peripheral Equipment & Options

- Up to three (3) Slave Units
- Feed Air Unit
- Set of air intake filters
- Oxygen Analyser with Zirconium-Oxide Sensor
- Electronic Product Flow Meter
- Feed Air / Product Moisture Analyser
- Feed Air / Product Temperature Transmitters
- Oxygen Sterile Filters
- Telemetry for Remote Monitoring
- Oxygen Booster & Cylinder filling System

Installation Requirements

Well ventilated and weather protected environment with ambient temperatures between +5 °C / +41 °F and +45 °C / +113 °F. Classified areas excluded.

Dimensions , weight and connections

Dimensions:	1850 x 1200 x 2771 mm
Weight	2500 Kg
Air send	G 2"
Oxygen send	G 1 1/2"
Oxygen return (*)	G 1 1/2"
Oxygen outlet (*)	G 1 1/2"



OZP - OXYSEP 35 - Technical informations

Power supply	230V / 50 - 60 Hz
Power consumption	Max 0.3 kW
Supply pressure	7.5 bar
Supply temperature	5 - 45 °C
Product @ 95% vol	37.6 mc/h
Product pressure	6 bar
Feed air consumption	477 mc/h
Min air receiver	2500 liters
Min oxygen receiver	1450 liters
Product @ 93% vol	39.7 mc/h
Product pressure	6 bar
Feed air consumption	479 mc/h
Min air receiver	2500 liters
Min oxygen receiver	1550 liters
Product @ 90% vol	42.9 mc/h
Product pressure	6 bar
Feed air consumption	489 mc/h
Min air receiver	2500 liters
Min oxygen receiver	1650 liters
Dew point	- 40 °C
Sound level	80 dB(A)

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