



EFFECTIVE & RELIABLE SOLUTIONS



Mentis Oxygen Generators



Mentis Oxygen Generators S-PSA60 Series

Features

- High-Quality oxygen gas (vol. 95% oxygen)
- Plug & Play design
- Low footprint
- Exceptional convenience
- Microprocessor controlled (Siemens PLC)
- Touchscreen control panel
- Low operating cost (0.7kW energy consumption per 1m³ oxygen gas)
- Fully automatic operation
- Easy installation & maintenance
- 24/7 Pressure, purity, and consumption chart records
- Zirconia type oxygen sensor for exact oxygen purity
- Integrated own desiccant air dryer system
- Integrated own filtration system
- Volumetric oxygen gas flow control display
- High-Quality components
- 24/7 Online service
- Automatic maintenance and service alarms
- Remotely control via ethernet connection**
- High purity oxygen up to 99.5% **

** Optional

Mentis S-PSA60 Oxygen Generators

Mentis Engineering S-PSA Oxygen Generators use Serial Pressure Swing Adsorption technology to isolate oxygen molecules from other molecules in compressed air. The result is high purity oxygen gas at the outlet of the generator. The S-PSA series is the most cost-efficient source of oxygen used in various industries like health care, wastewater treatment, ozone production, glass industry, gold leaching, fish farming, and many others.

How does PSA Works?

Air contains 21% Oxygen, 78% Nitrogen, 0.9% Argon, and 0.1% other trace gases. Mentis S-PSA Oxygen Generation Systems separate this oxygen from Compressed Air through a unique process called Pressure Swing Adsorption (PSA).

The Pressure Swing Adsorption process for the generation of enriched oxygen gas from ambient air utilizes the ability of a synthetic Zeolite Molecular Sieve to absorb mainly nitrogen. While nitrogen concentrates in the pore system of the Zeolite, Oxygen Gas is produced as a product.

Mentis Engineering Serial-PSA Technology

"Management of Atmospheric Contamination Movement"

This is the most distinctive feature that distinguishes our technology from other PSA oxygen-generating technologies. Compressed air is a source of many contaminations while compressing. We are sure that; Pressurized air coming from compressors is not suitable for the separation process yet. That's why, pressurized air must be cleaned, separated until free from contaminants completely.

S-PSA technology is composed of two-stage PSA cycles.

The first stage cycle is purifying the compressed air from all contaminations and unwanted gaseous.

The second stage cycle is simply to separate the oxygen gas from other gases. In this way, all impurities and unwanted gases are separated from the oxygen gas and pure oxygen is stored.

This process is developed by Mentis Engineering Company for long life and high purity oxygen separation.

Oxygen Applications:

- Health Care
- Metal Cutting
- Gold Leaching
- Fish Farming
- Waste Water Treatment
- Ozone Production
- Glass Industry
- Oxygen Cylinder Re-filling

Standards Compliance:

- EN ISO 7386-1
- 93/42 EEC
- ISO 9001:2015
- ISO 13485:2016
- ISO 10002:2018
- ISO 14001:2015
- ISO45001:2018
- ISO27001:2013



Mentis Oxygen Generators S-PSA60 Series



Mentis S-PSA60 Oxygen Generators Produce 66Nm³ of gaseous oxygen per hour at 93% ±3% oxygen concentration at up to 6.0 bar oxygen outlet gas pressure.

Advantages of Mentis S-PSA60 SERIES

Plug & Play Single Skid Design

Mentis M-S-PSA60 Oxygen Generators have their own Oxygen Generation System, Integrated Air Dryer, Integrated Line/Medical Filters, Integrated PLC with Touch Screen Monitoring Panel.

Cost Reduction

Oxygen production from compressed air with Mentis S-PSA60 Oxygen Generator eliminates the cost of the unabated tube or liquid gas, rent, filling costs, purchase procedure.

Non-Stop Gas Supply

Mentis S-PSA60 Oxygen Generator produces 24 hours of continuous oxygen gas as long as it is needed wherever you want.

True & Reliable Purity

Mentis S-PSA60 Oxygen Generators can produce oxygen gas according to the purity required by your application. Don't pay more for high purity.

Safety

Mentis S-PSA60 Oxygen Generator Eliminates the storing hazards, transporting, and handling heavy and high-pressure tubes.

Product Gas Quality

Mentis S-PSA60 Oxygen Generator provides you with product quality certified by national and international organizations. Product quality can be continuously monitored and proven accurate.

Typical Installation



Note: An unprotected or inadequately ventilated environment or improper control power may cause damage to the oxygen generator not covered under warranty.

	MENTIS M-SPSA60
Specifications	
Product Oxygen Flow	60 Nm ³ /hr 1000 LPM
Product Oxygen Purity	93 ± 3%
Product Oxygen Pressure	up to 6 bar
Product Oxygen Dew point	°C -70
Requirements	
Required Feed Air Flow	10m ³ /minute
Required Feed Air Pressure	7.5 bar
Oxygen/Air Ratio	1/10
Product Characteristics	
Product Dew Point	°C -70
Water content	<67 ppm
CO	<2 ppm
CO ₂	<150 ppm
SO ₂	0 ppm
NO _x	0 ppm
Physical Connections	
Dimensions (W x L x H)	120X170X300
Weight	2000 kg
Compressed Air Inlet	2
Product Oxygen Gas Outlet	1 1/2
Power requirements	220V 50/60 Hz, 3A, 100W
Commodity Classification Number	
Industrial	8421.3980.4000
Medical	9019.2090.0000
Terms of Warranty	1 Years
Reference Conditions	
Ambient Pressure	1013 mBar
Inlet Pressured air Pressure	7.5 bar
Compressed Air Inlet quality	ISO8573-1 class 1-4-1