



**an unique solution
for medical oxygen**

FLEXIBILITY · HIGH RELIABILITY · LOWEST ENERGY CONSUMPTION · LOW MAINTENANCE



CERTIFIED OXYGEN SUPPLY

MEDICAL OXYGEN BY OXYSWING®

The OXYSWING® Medical Oxygen Concentrators allow the onsite production of medical oxygen according to the European and US Pharmacopoeia. As a matter of fact, OXYSWING® has been officially registered at Ministries of Health in several countries.

After installation the hospital has the possibility to adapt its concentrator to changed oxygen consumption by simply varying the number of PSA modules of the unit, without need of skilled personnel. Additionally, the Dual Bank system option makes it possible to double or even triple the concentrator's output flow, so that any medical oxygen requirement can be satisfied at very competitive costs.



OXYSWING®
Master Unit with Dual Bank



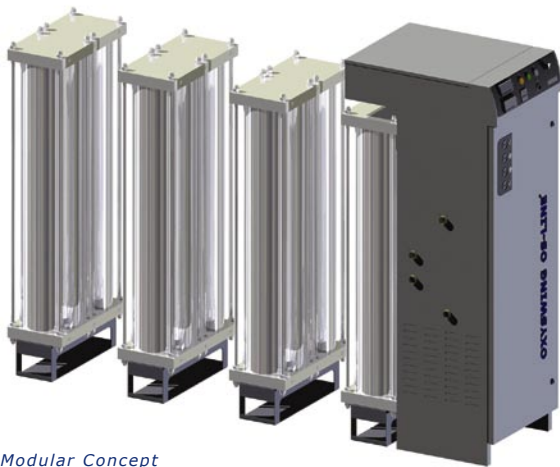
CERTIFIED QUALITY

OXYSWING® Medical Oxygen Concentrators are certified as Class IIB medical devices to MDD 93/42/EEC, which makes them completely suitable for any healthcare application, even when oxygen is required for unconscious or non-spontaneously breathing patients, like intensive-care patients.

Medical oxygen system installations according to ISO 10083:2006 and HTM 2022 become extremely easy with OXYSWING® Medical Oxygen Concentrators.



UNIQUE FEATURES



Modular Concept

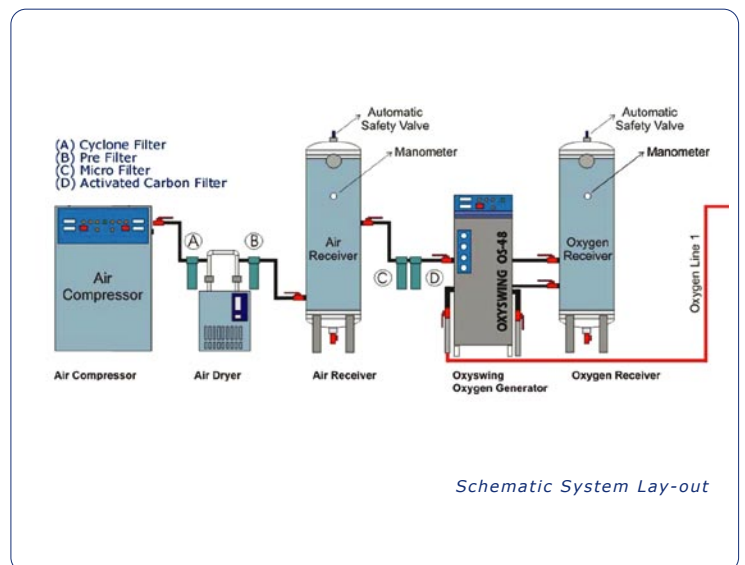
OXYSWING® - CONVENIENT & EASY

- Patent pending FlatFlow® gas distribution system for unmatched performance and efficiency;
- Robust and simple design for minimum maintenance requirements;
- Process piping, valves and air treatment of each supplied concentrator already sized for the maximum possible number of PSA modules;
- Process piping and valve bodies made of stainless steel as standard supply;
- Components from first-class international suppliers with proven durability even under harsh operating conditions;
- Identical components throughout the whole product line for easy spare parts management;

- Standard onboard and external oxygen analyzer with zirconium-oxide sensor:
 - maximum measurement reliability
 - no annual sensor renewal required
 - no yearly calibration required
- Onboard electronic flow meter;
- Optional CO / CO₂ analyzer;
- Telemetry for remote monitoring and control of the oxygen concentrator;
- Touch panel or semi-graphical HMI interface.

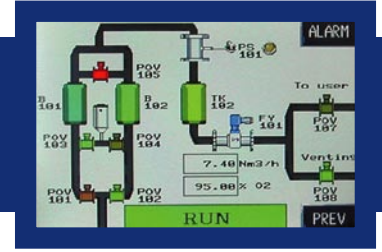
PSA TECHNOLOGY

PSA (Pressure Swing Adsorption) technology permits producing oxygen by separation of pressurized ambient air. By optimizing this process, OXYSWING® Medical Oxygen Concentrators set market standards in terms of performance and efficiency.



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SPECIAL PRODUCTS



TURN-KEY PLANTS & SPECIAL EXECUTIONS

Thanks to the modular design of the OXYSWING[®] Medical Oxygen Concentrators, IGS can supply the most compact, turn-key portable field hospital units on the market. Additionally, IGS offers special medical oxygen production plants for the filling of high-pressure cylinders, which can be operated even under harsh ambient conditions. These special OXYSWING[®] systems can be supplied either on a single skid or installed in an ISO freight container.



Containerized System with Cylinder Filling Manifold



Skidded OXYSWING[®] System



Skidded OXYSWING[®] Cylinder Filling System with O₂ Purity Pen Recorder



Hospital Installation

PERFORMANCE TABLE & OPTIONS

DISCOVER THE UNMATCHED FLEXIBILITY OF OXYSWING®

MODEL	PSA MODULES	OXYGEN FLOW LITER/MIN		
		MASTER UNIT	FIRST DUAL BANK	SECOND DUAL BANK
OS-8	1	45	N/A	N/A
OS-16	2	90	N/A	N/A
OS-24	3	137	N/A	N/A
OS-32	4	180	360	540
OS-40	5	225	450	675
OS-48	6	266	533	799

Gas Purity: 95 Vol. % O₂

Feed Air Pressure: 7 bar(g) / 100 psig

Oxygen discharge pressure: 6 bar(g) / 87 psig

DIMENSIONS AND WEIGHT		
MODEL	DIMENSIONS (mm)	WEIGHT (Kg)
OS-8	560 x 780 x 1672	306
OS-16	560 x 1048 x 1672	457
OS-24	560 x 1316 x 1672	609
OS-32	560 x 1584 x 1672	760
OS-40	560 x 1852 x 1672	912
OS-48	560 x 2120 x 1672	1063

STANDARD COMPONENTS

- Oxygen Analyzer with Zirconium Oxide Sensor
- Feed Air Filters
- Adsorber Vessel Module(s)
- Pneumatic Valves with SS316L Bodies
- Internal Piping & Fittings in SS316L
- Exhaust Mufflers in SS316L
- Oxygen Pressure Regulator in SS316L
- Local Instrumentation
- Control System with Allen-Bradley PLC for fully automatic operation of the OXYSWING® concentrator

OPTIONS

- Dual Bank (max. 2)
- Dew Point Analyzer
- CO / CO₂ Analyzer
- Electronic Product Flow Meter
- Product Flow Totalizer
- Feed Air Pressure and Temperature Transmitter
- Oxygen Pressure and Temperature Transmitter
- Oxygen Purity Pen Recorder
- Semi-Graphical HMI Interface
- Touch Panel HMI Interface
- Oxygen Bacterial Filters
- Telemetry

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