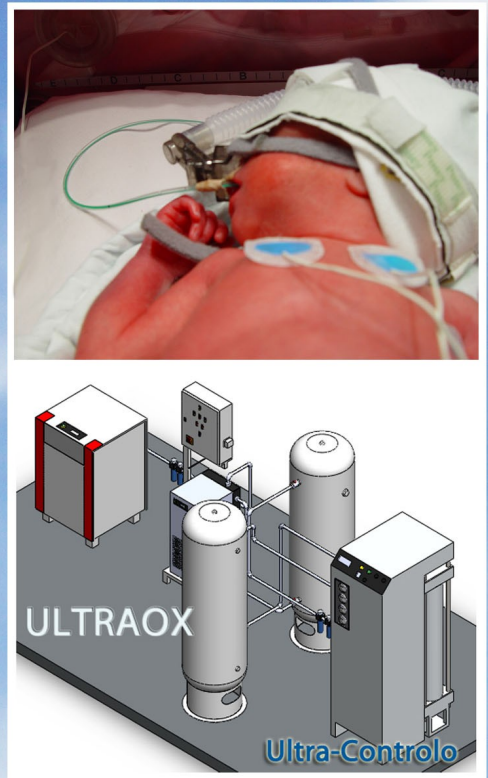


# ULTRAOX<sup>®</sup>

## Medical Oxygen Plants



[www.ultracontrolo.com](http://www.ultracontrolo.com)

**ULTRAOX<sup>®</sup>**

**Medical Oxygen Supply Systems**

# ULTRAOX®

## ULTRAOX® SYSTEMS

ULTRAOX® medical oxygen systems are designed to deliver high purity oxygen for medical use according to the parameters of the European and American Pharmacopoeia.

The production of medical oxygen is carried out on site, via an oxygen concentrator integrated in the ULTRAOX® unit, thereby ensuring drastic savings in annual costs with oxygen supplied to the hospital network.

The ULTRAOX® plant provides a continuous supply of medical oxygen with a purity of 95%, and is equipped with safety devices that ensures constant high purity.

With this, ULTRAOX® guarantees total safety in the use of medical oxygen by hospital staff.



Medical oxygen plant ULTRAOX®

## Compatibility

The system is designed in such form that one can keep the existing installation and connect the ULTRAOX® unit as it were a new source of oxygen supply, following a few simple procedures.

With the ULTRAOX® plant, one can establish its own autonomy of continuous supply of medical oxygen as it is being done with other medical gas supply systems (medical air supply system, medical vacuum system).

## Regulation

The ULTRAOX® oxygen production plants are certified as medical devices, class IIb, and comply with the requirements of the international standard ISO 10083:2006.

Its design and manufacture meet the requirements of the implemented Quality Management System to ISO 13485:2003 and ISO 9001:2008.

## High Pressure /Reserve

The ULTRAOX-HP medical oxygen production plant allows to deliver oxygen to the hospital medical gas pipeline system and at the same time the filling of high pressure cylinders.

This is only possible when the system is properly calculated with our Project Department.

Also get to know the state-of-art ULTRAAR® totally oil-free medical air plants!

High pressure compressor for filling cylinders at 152-207 bar (2200-3000 psi)



# the smart choice

## Modular Construction

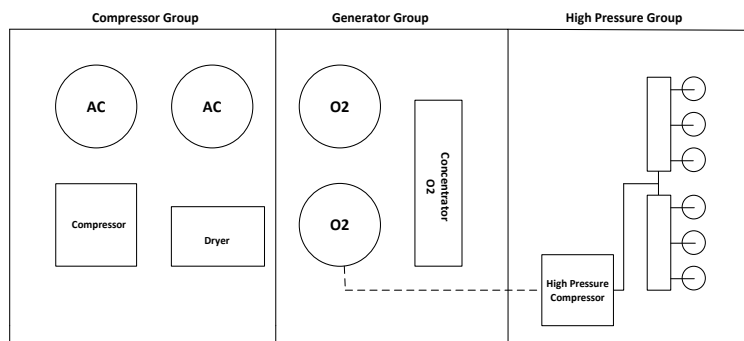
The ULTRAOX<sup>®</sup> oxygen production plants can be built according to the physical space available.

Depending on the characteristics of each use, we have designed the most compatible cost/benefit ratio production system.

In the systems with more than one oxygen production line available, the systems runs fully automatic. Switching between the compressors and the start-up of the generators, in a cascaded manner, ensures a continuous supply of oxygen to the hospital network or for the filling station.

## Basic Configuration

- 1 or 2 oxygen analyzers with a zirconium oxide probe
- 1 or 2 or more high quality compressors
- 1 or 2 or more air tanks
- 1 or 2 or more compressed air treatment chains
- 1 or 2 or more oxygen concentrators
- 1 or 2 or more oxygen tanks
- 1 set of valves and safety devices for a good and long lasting operation of the equipment



Layout of the Medical Oxygen Plant, ULTRAOX<sup>®</sup>

## Simplified and Secure Mounting

The medical oxygen production plants, ULTRAOX<sup>®</sup> are factory pre-electrified and if requested, can be totally interconnected, so installation or assembling on site will become very simple.

The equipment is parameterized and tested in the factory and will be ready to start.

In large plants, the installation, initial start-up and training of personnel, is supervised by factory technicians.



## Complete range of products and accessories for medical gas installations:

- Compressors with variable speed technology for greater energy savings
- Digital Oxygen flow-meters
- Oxygen purity controllers
- Complementary information control box for Central Management Systems (CMS)
- High pressure compressors for cylinders filling
- Oxygen filling stations
- High pressure cylinders and valves
- Accessories for medical gas pipeline systems including: medical gas outlets, second stage regulators, valves, automatic changeovers, line regulators, pressure and temperature sensors)
- Accessories for oxygen therapy, suction lines and anaesthetic gases: Flow regulators, vacuum regulators, suction jars, pressure regulators, suction kits, disposables.

# ULTRAOX®

## Raising the medical gases quality standards

### Turnkey systems and special executions

Thanks to the vast experience in the medical gas sector, we are able to supply an oxygen production system in compact versions, including modular systems.

### ULTRAOX® Advantages

- ▶ Lower energy consumption
- ▶ Higher oxygen pressure availability
- ▶ Expandable without need of concentrator replacement
- ▶ Few service parts and very easy for maintenance
- ▶ Long life cycle before overhauling



Versions assembled on metal platforms



Authorised distributor

Model	Capacity O <sub>2</sub>		Compressor 400V/50Hz kW	Inlet pressure AC bar	Outlet pressure O <sub>2</sub> bar	Dimensions Central C x L x A m	Weight Kg
	L/min	m <sup>3</sup> /h					
<b>30</b>	45	2,7	5,5	7,5	6	5,7 x 3,7 x 2,3	805
<b>60</b>	90	5,4	7,5	7,5	6	5,8 x 3,7 x 2,3	1058
<b>80</b>	137	8,2	11	7,5	6	5,8 x 4 x 2,5	1225
<b>120</b>	180	10,8	15	7,5	6	6 x 4 x 2,5	1635
<b>140</b>	225	13,5	18,5	7,5	6	6 x 4 x 2,5	1813
<b>160</b>	266	15,9	22	7,5	6	6,2 x 4 x 2,5	1975
<b>220</b>	360	21,6	30	7,5	6	8 x 4 x 2,5	2783
<b>280</b>	450	27	37	7,5	6	9,6 x 5 x 2,5	4156
<b>320</b>	533	32	45	7,5	6	9,6 x 5 x 2,5	4483
<b>340</b>	540	32,4	45	7,5	6	9,6 x 5 x 2,5	4483
<b>420</b>	675	40,5	55	7,5	6	11,3 x 5,5 x 2,5	5885
<b>500</b>	799	47,9	55	7,5	6	12,5 x 5,5 x 2,5	6494

Standard capacity available from 45 to 3945 l/min and tailor made solutions!

Other voltages and frequencies available as standard.

Note: The dimensions includes space which is suitable for the compulsory maintenance and inspection of the equipment.

To calculate and select the right medical oxygen plant for your hospital needs, please send a request to our Engineering Division: [international@ultra-controlo.com](mailto:international@ultra-controlo.com)

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