

ULTRA CONTROLO

ULTRAOX SC®



ULTRAOX

ULTRAOX® SC Plants

ULTRAOX SC medical oxygen plants are designed to deliver high purity oxygen for medical use surpassing the European and American Pharmacopoeia parameters.

Our state of the art Oil-less air compressors ensures that your healthcare facilities offer the patient the best oxygen quality close to cryogenic oxygen. The production of medical oxygen is carried out on site, via an oxygen concentrator integrated in the ULTRAOX SC plant, thereby ensuring drastic savings in annual costs with oxygen supplied to the hospital network.

The ULTRAOX SC plant provides a continuous supply of medical oxygen with a purity of 94 %(+/- 1%), and is equipped with safety devices that ensures constant high purity.

State of the art technology ULTRACECO® Oil-less air compressor "Class 0"

No need of total back-up compressor ULTRAOX SC is constructed with modular design and increases the flow capacity progressively. While most of screw compressors must be maintained every 2,000 hours, our ULTRAOX SC has one service at 10,000 hours!

ULTRAOX SC series - No contaminants in your medical oxygen!

Regulation

The ULTRAOX SC oxygen production plants are certified as medical devices, class IIb, and comply with the requirements of the international standard ISO 7396-1:2016.

Its design and manufacture meet the requirements of the implemented Quality Management System to ISO 13485:2016.

THE SMART CHOICE

Modular Construction

The ULTRAOX SC 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.

The systems run fully automatic. Switching between the compressors and the start-up of the generators, in a cascaded way, ensures a continuous supply of oxygen to the hospital network or for the filling station.

Basic Configuration

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



Simplified and Secure Assembly

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

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

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

Compatibility

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

Besides, with the ULTRAOX plant, one can also 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).



Oxygen quality in accordance with the European Pharmacopoeia

<i>Purity of the O₂</i>	<i>94% +/- 1%</i>
<i>Particles</i>	<i>< 1 µm</i>
<i>Oil (fluid phase)</i>	<i>Exempt</i>
<i>Oil vapor and hydrocarbons</i>	<i>Exempt</i>
<i>CO₂</i>	<i>< 300 ppm</i>
<i>CO</i>	<i>< 5 ppm</i>
<i>SO₂</i>	<i>< 1 ppm</i>
<i>NO_x</i>	<i>< 2 ppm</i>
<i>Working dewpoint</i>	<i>- 46 ° C</i>
<i>Tastes and smells</i>	<i>Exempt</i>
<i>Residual contents in initial operation conditions</i>	

ADVANTAGES

Lower energy consumption;
Higher oxygen pressure availability;
Expandable without need of replacement;
Few service parts and very easy maintenance;
Long life cycle before overhauling;
The best quality of Oil-less Medical Oxygen you can provide to your patients Health!

Complete range of products and accessories for medical gas installations

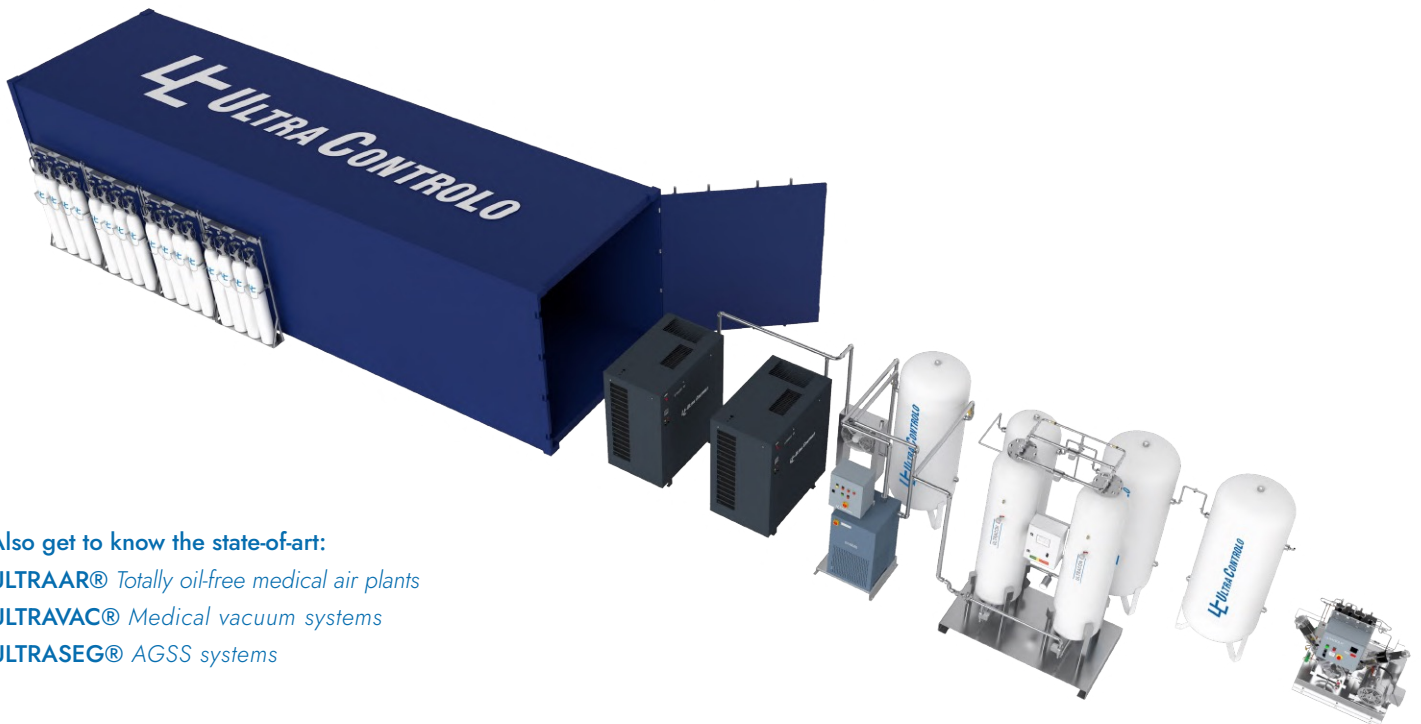
Digital Oxygen flow-meters;
Oxygen purity controllers;
Complementary information control box for Building Management Systems (BMS);
High pressure compressors for filling cylinders station;
High pressure cylinders and valves;

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 and pressure regulators, vacuum regulators, junction jars, pressure regulators, suction kits, disposables.

To design a medical oxygen production system for your hospital unit, consult our Engineering department:
internacional@ultra-controllo.com

ULTRAOX® SC IN CONTAINER



Also get to know the state-of-art:

ULTRAAR® Totally oil-free medical air plants

ULTRAVAC® Medical vacuum systems

ULTRASEG® AGSS systems

RAISING THE STANDARDS OF QUALITY IN MEDICAL GASES

MODEL	CAPACITY O2 (por unid.)		COMPRESSOR (por unid.) KW	INLET PRESSURE (AC) BAR	SAID PRESSURE (O2) BAR	ULTRACON
	l/min	m3/h				
3	5,3	0,318	2,2	7,5	6	1
8	13	0,777	2,2	7,5	6	2
12	17,9	1,072	4	7,5	6	3
30	51,7	3,1	5,5	7,5	6	4
50	76,7	4,6	7,5	7,5	6	5
70	108,3	6,5	11	7,5	6	6
90	133,3	8	11	7,5	6	7
100	158,3	9,5	15	7,5	6	8
120	206,7	12,4	15	7,5	6	9
180	303,3	18,2	22	7,5	6	10
260	436,7	26,2	30	7,5	6	11
370	608,3	36,5	37	7,5	6	12
440	725	43,5	55	7,5	6	13
520	873,4	52,4	60	7,5	6	11D
560	928,3	55,7	75	7,5	6	14
730	1216,6	73	75	7,5	6	12D
820	1367	82,4	110	7,5	6	15
1120	1856,6	111,4	150	7,5	6	14D
1640	2734	164	220	7,5	6	14D

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

Authorized Distributor



Tel. +351 21 915 4350
international@ultra-controlo.com