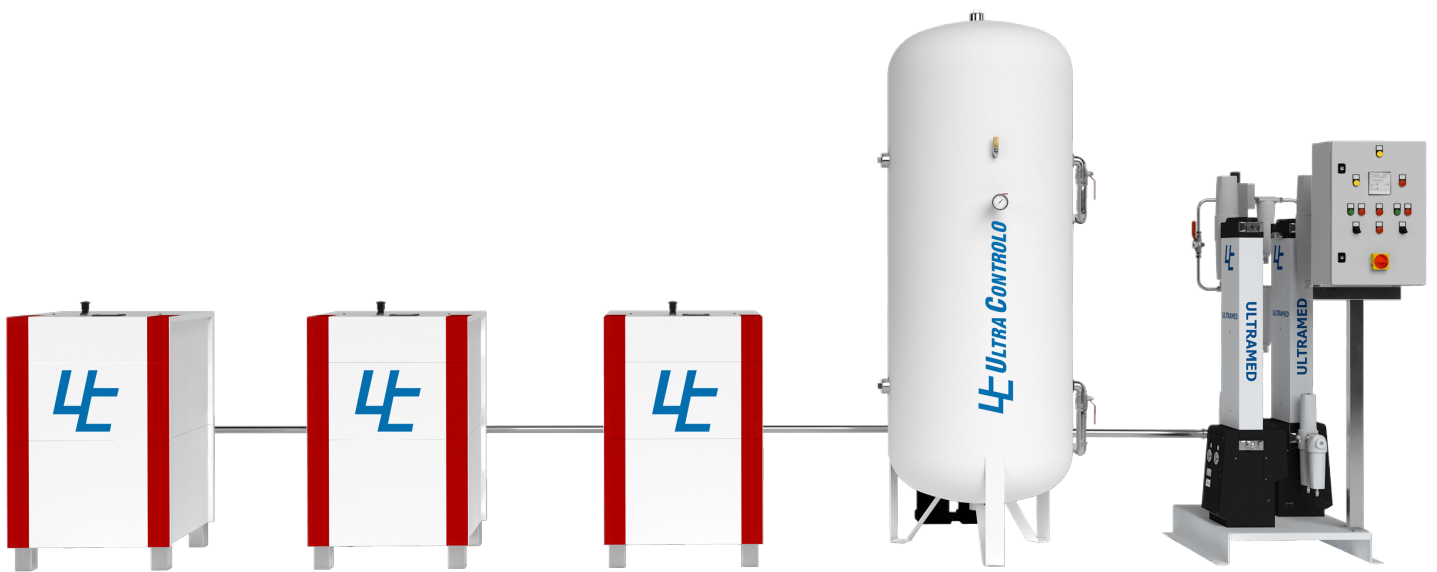


ULTRA CONTROLO

ULTRAAR ME



Medical Air System

Made in Portugal

ULTRAAR ME

ULTRAAR ME Systems

The ULTRAAR ME medicinal compressed air systems are ranked as class IIb medical devices. They are designed for the production and continuous supply of medicinal compressed air for the medical gas network in healthcare units and in a fully automatic operating regime. The ULTRAAR ME systems are designed and produced in Portugal and they have been developed over 20 years ago to meet the needs of breathable compressed air in hospitals and compressed air for medical equipment.

Regulation

The ULTRAAR ME systems comply with EN ISO 7396-1 and ET 03/2006 technical specifications from ACSS. Also, they bear the EC branding for medical devices (CE0120) in conformity with the demands of European Directive 93/42/CEE and alterations through Directive 2007/47/CE.

The design, production and assembly of the ULTRAAR ME medicinal air systems follow the standards defined by the Quality Management System, ISO 13485:2015.

Reliable Construction

The ULTRAAR ME systems are equipped with the most up-to-date technology in rotary screw compressors, from the German brand Gardner Denver, world leader in compressed air and vacuums. ULTRAAR ME has the unique peculiarity of including air treatment units which have an air quality compliance certificate which, on its turn, is processed in accordance with the parameters of the European Pharmacopoeia monograph and is certified by an independent organisation.

Reinforcing the security of the installation, instead of one, ULTRAAR ME comes equipped with two integrated systems, Ultragest, for the continuous monitoring and control of the dew point of the medicinal air supplied to the network with the simultaneous advantage of drastically reducing energy consumption and other costs related to the production of medicinal air.

THE SMART CHOICE

Basic configuration

- 1, 2, 3 or more air compressors;
- 1, 2, 3 compressed air treatment and drying units with an electronic condensate drain, zero-loss;
- 1 electric control box;
- 1, 2 or more compressed air tanks;
- 1 or 2 sets of pressure reducers including sterile filter, ball valves and manometer;
- 1 oil/water separator for condensate treatment;
- 1 set of safety valves and safety devices;

Technical Features

Normal service pressure: 8-10 bar or 10-12 bar;

Normal capacities*: 15 to 720 m³/h;

Power*: 2.2 to 110 kW, 400V, 50Hz;

*Other capacities and pressures available as standard.
Capacity and power per compressor*

COMPONENTS

Compressors

Rotary screw compressors equipped with high efficiency motors suction air filter for dust protection, oil filter, high efficiency oil separator, air/oil and air/air heat exchangers, cyclone separator and digital control panel with information on inlet pressure and network pressure, alarms and alerts for preventive maintenance.

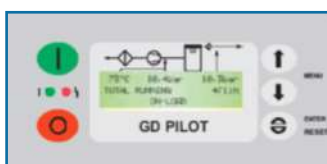
Sets of pressure reducers with sterile air filter

The ULTRAAR ME medicinal air system comes equipped with a set of high flow rate pressure regulating valves and respective manometer.

Each regulator is equipped with an sterile air filter, with a 99.999998% to 0.01 μm efficiency which guarantees the supply of 100% sterile air to the hospital network. This set also includes sectioning valves at each ends and two test valves to collect air samples for testing.

Automatic oil/water separator

The ULTRAAR ME system comes equipped with a condensate treatment unit which removes the oil, thereby allowing the draining of condensates into the sanitary network. The system includes a test valve to collect and analyse a sample of condensates before being introduced into the sanitary system.



Tanks

Vertical configuration;
Capacities of 100 to 3,000 litres;
Hot-dip galvanized internal and external treatment;
Epoxy external finish;
Including safety accessories:
- safety valve, calibrated manometer
- manual bleeding valve
Connection for complementary emergency groups;
Electronic condensate drains.

Electric switchboard

Analogue control;
Digital control;
ULTRACON with digital console and communication with a PC.

ADDITIONAL OPTIONS - Air Treatment Units

ULTRATECH

ULTRATECH was the first equipment launched in Portugal by Ultra Controlo, with conformity certification for the parameters of the Europeans Pharmacopoeia monograph.

ULTRATECH is an air processing unit capable of producing breathable air from air which comes from any type of compressor and which is installed in any location.

ULTRATECH was designed with a range of products able to maintain the equipment for a long period of time, 100% operational, without the need for frequent and premature maintenance.



ULTRAMED

The air treatment unit ULTRAMED provides a low operational cost through a smart energy saving module;

Compact design for maximum space saving; Existing Medical Air plants can be easily upgraded with no need for a new Electrical control panel;

Compatible with digital dew point indicator upgrade for Medical Air supplied to the Medical Air Pipeline continuous monitoring.

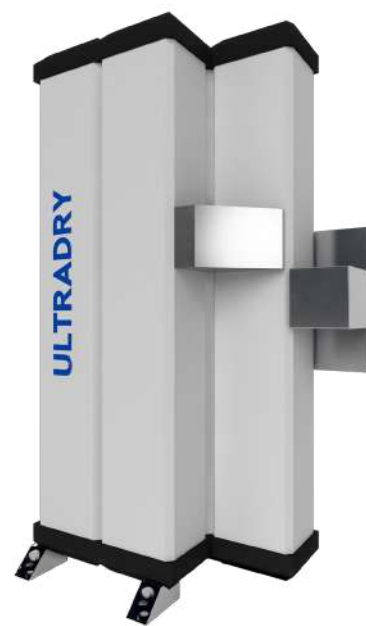


ULTRADRY

ULTRADRY adsorption dryers provide clean, dry air with a pressure dew point range of -40 ° C to -70° C. Its modular design includes a coalescing filter at the inlet and a dust filter at the outlet.

The desiccant contained in cartridges are easy to replace. Microprocessor control tells the operator when it is time to replace the filter elements, minimizing maintenance and operating costs.

Information of operating status, faults and maintenance intervals is displayed on a display.



ADVANTAGES

Safe and Simplified Assembly

The system is pre-assembled. Only the connection of the compressors to the tanks; from the tanks to the treatment unit modules and from the pressure reducers connection to the air network are needed. It can include all connection cables and flexible hoses. The medical device is adjusted and tested at the factory and is ready to be installed at any given location. In medium and large systems, the pm installation, the initial start-up and the training of staff is supervised by our skilled technicians.

Preventive Maintenance

The maintenance of the ULTRAAR ME compressed or system is cared out regularly by technicians who are certified by Ultra-Controllo so as to ensure that the system is always in its initial conditions of use. Behind each ULTRAAR ME, there is a team of competent professionals who are trained by the manufacturers of the main components to take care of the equipment and ensure its correct maintenance. With a reduced number of parts used and which are easy to access, maintenance has never been so simple and economic.

PROVEN QUALITY, YEAR AFTER YEAR



ULTRAAR ME medical air systems are operating 24/24h in healthcare units, since 1992!

ULTRAAR ME compressors air-end has 2 years guarantee and can be extended for 5 years!

Technical Assistance centre for compressors, certified under ISO 9001:2008 and ISO 13485:2015.

RAISING THE MEDICAL GASES QUALITY STANDARDS

MODEL	COMPRESSOR FLOW M3/H 10BAR	MOTOR POWER KW	400V/50HZ	TANK LITRES
3.15/500D	3x14,4	3x2,2		2x500
3.20/500D	3x21,6	3x3,0		2x500
3.30/500D	3x31,8	3x4,0		2x500
3.40/800D	3x40,8	3x5,5		2x800
3.60/800D	3x65,4	3x7,5		2x800
3.100/1000D	3x96,1	3x11		2x1000
3.130/1000D	3x135,6	3x15		2x1000
3.170/1000D	3x164,4	3x18,5		2x1000
3.200/1000D	3x192,6	3x22		2x1000
3.300/1500D	3x301,7	3x30		2x1500
3.370/1500D	3x371,4	3x37		2x1500
3.420/2000D	3x421,2	3x45		2x2000
3.450/2000D	3x445,2	3x45		2x2000
3.600/2000D	3x572,4	3x55		2x2000
3.750/2000T	3x748,8	3x55		3x2000

MODEL	COMPRESSOR FLOW M3/H 13BAR	MOTOR POWER KW	400V/50HZ	TANK LITRES
3.50/800D	3x51	3x7,5		2x800
3.80/1000D	3x79,2	3x11		2x1000
3.110/1000D	3x108	3x15		2x1000
3.140/1000D	3x140,4	3x18,5		2x1000
3.160/1000D	3x156,6	3x22		2x1000
3.260/1500D	3x262,8	3x30		2x1500
3.320/1500D	3x319,2	3x37		2x1500
3.360/2000D	3x367,8	3x45		2x2000
3.500/2000D	3x496,2	3x55		2x2000
3.630/2000T	3x630,6	3x75		3x2000

Authorised distributor