

ULTRA CONTROLO
ULTRAVAC®



Medical Vacuum System

Made in Portugal

ULTRAVAC

ULTRAVAC® Systems

ULTRAVAC Systems aim to provide medical vacuum continuously for medical gas supply systems with fully automatic operation. It has been designed and manufactured since more than 20 years ago and have proven to be one of the most reliable system in the market.

The development and evolution of the ULTRAVAC systems is a result of more than 30 years of leadership in the vacuum technology and centralized systems applied in the industry and hospitals.

Regulatory Compliance

ULTRAVAC Medical Vacuum Systems comply and surpass the requirements of international standards ISO 7396, HTM 02.

Besides, ULTRAVAC Systems are designed and manufactured under an EN ISO 13485:2016 and ISO 9001:2015 Quality Management Systems

Reliable Construction

ULTRAVAC Systems are equipped with the latest vacuum pumps technology from the well-known worldwide brand, Elmo-Rietschle.

Ultra-Controlo has always used this brand of vacuum pumps which have a unique design using solid aluminium alloy blades. They won't break down and wear out like laminated blades. The new generation of these pumps has not oil leakages due to the ground unit that has no joints but o'rings, and also to the oil cooler that is one single pipe with hydraulic fast fittings and so, no oil spillage is possible.

With the special gas ballast design, not even the suction of moisture interferes with the pump operation, ensuring an endless lifetime.

THE SMART CHOICE

Basic configuration

- 1, 2, 3 or more vacuum pumps;
- 2 bacterial filters with liquid separator;
- 1, 2 or more electric cabinets;
- 1, 2 or more vacuum tanks;
- 1, 2 or more exhaust pipes;
- 1 set of valves and safety devices for good operation and long-life of the equipment.

Technical Features

Vacuum normal operation: - 0.85 bar

Capacities per pump: 3 to 1600 m³/h

Motor power: 0.37 to 40 kW, 400V, 50 Hz

Other voltages and frequencies according to the country regulations.

Standard Pump Technologies used in our ULTRAVAC Systems:

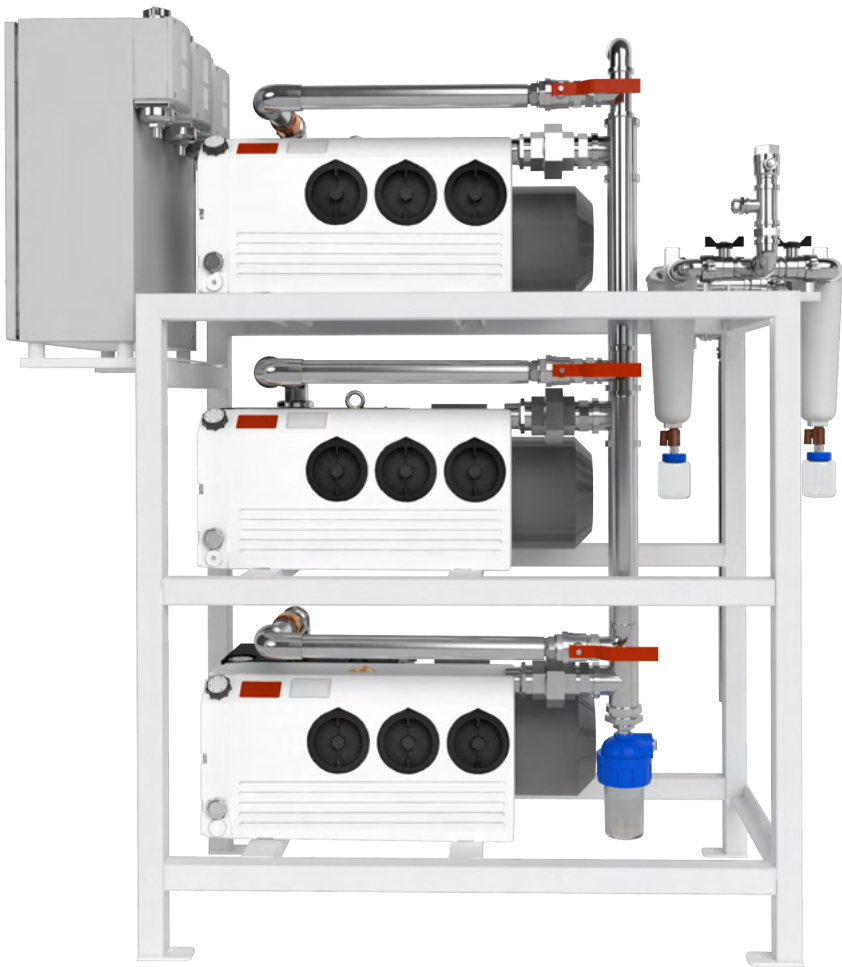
OLP - Oil lubricated vane pumps

DRP - Dry running vane pumps

LRP - Liquid ring pumps

SCB - Side channel pumps

CLP - Dry running claw pumps



Vacuum Vessels

Vertical or horizontal configuration;
Capacity from 24 to 6,000 liters;
Epoxy painting finish;
Option: Hot dipped galvanized treatment;
With vacuum gauge, drain valve and additional free connections.

COMPONENTS

Vacuum Pumps

Wide selection of technologies according to your requests.

Bacterial filters

High-efficiency filters for bacteria retention with vacuum differential gauges and isolating valves: Simplex; Duplex;

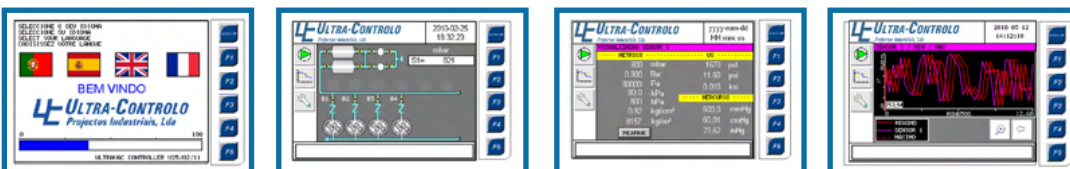
Condensate Collection

Translucent trap with easy cleaning system for condensate collection from exhaust vacuum.

Liquid Separator

Transparent liquid separator or drain flask for deposition of liquids and impurities and protection of the bacterial filter element.

QuVAC Touch Screen Controllers! Real-time information!



Electric Control Box

Analogue Control;
Digital Control QuVAC with Human-Machine Interface and Touch-Screen Panel;
ULTRACON console with digital and PC communication for Building Management Systems;
Remote monitoring systems 24h available as option;
Back safety through mechanical.

ADVANTAGES

Safe and simplified assembly

ULTRAVAC system is delivered fully connected and pre-assembled, including interconnecting cables and hoses. The medical device is parameterized, and factory tested, ready to install on site. Medium and large plants, pre-installation, commissioning, initial start-up and training of staff, is supervised by factory skilled technicians.

Preventive maintenance extremely easy

ULTRAVAC Medical Vacuum Systems maintenance is very easy and limited to a simple replacement of oil, oil separators and bacterial filter elements. All components used in the system are first class products and have proven their quality along the years.

It's a real peace of mind for all!

PROVEN QUALITY, YEAR AFTER YEAR

Since 1987 there are thousands of Rietschle vacuum pumps installed in hospitals to work 24/24 hours;

Technical Assistance Center with EN ISO 13485: 2016 and ISO 9001: 2015 certification;

A ULTRAVAC® has a comprehensive guarantee of 5 years or 30,000 hours of continuous service!*

Note: The unit is supplied with pumps, filters and the entire electrical box mounted on the metal frame and the connection of the tank with vacuum hoses. Including flexible tubes, as well as all mechanical and hydraulic electrical connections. All electrical connections and interconnections from our control panel to the respective electrical components are provided with the panel. All wires are properly identified. The control panel offers cable glands suitable for all cables and alarms.

The factory provides its technicians to check the conditions and maintenance, supervise the installation, commissioning and train the personnel who will operate the medical device, thus ensuring the proper functioning and operation of the equipment.

33 years (1987-2020)



With Elmo-Rietschle vacuum pumps VC-V series, preventive maintenance is made in a snap, saving a lot in service and parts.



Bacterial Filters with differential vacuum control!

RAISING THE MEDICAL GASES QUALITY STANDARDS

| TYPE | CAPACITY m ³ /h | | MOTOR POWER KW | | NOISE LEVEL DB (A) | WEIGHT(KG) | VESSEL VOLUME LITERS |
|------------|----------------------------|--------|----------------|--------|--------------------|------------|-------------------------|
| | 50hz | 60hz | 50hz | | | | |
| | | | 3~ | 1~ | | | |
| 3.10/200 | 3x10 | 3x12 | 3x0,37 | 3x0,37 | 60 | 180 | 200 |
| 3.15/200 | 3x15 | 3x18 | 3x0,55 | 3x0,55 | 61 | 180 | 200 |
| 3.15/300 | 3x15 | 3x18 | 3x0,55 | 3x0,55 | 61 | 210 | 300 |
| 3.20/300 | 3x20 | 3x22,5 | 3x0,75 | 3x1,1 | 63 | 225 | 300 |
| 3.25/500 | 3x25 | 3x30 | 3x0,75 | 3x1,1 | 58 | 315 | 500 |
| 3.50/500 | 3x50 | 3x60 | 3x1,25 | - | 65 | 345 | 500 |
| 3.75/500 | 3x70 | 3x84 | 3x1,85 | - | 66 | 360 | 500 |
| 3.100/1000 | 3x110 | 3x132 | 3x3,0 | - | 67 | 580 | 1000 |
| 3.150/1000 | 3x150 | 3x180 | 3x4,0 | - | 69 | 600 | 1000 |
| 3.200/1000 | 3x200 | 3x240 | 3x5,5 | - | 71 | 760 | 1000 |
| 3.300/1000 | 3x300 | 3x360 | 3x7,5 | - | 74 | 940 | 1000 |

Our Medical Systems are really simple and easy to install.

All major parts are prepared in our factory. All systems are tested and pre-configured before leaving our factory, making work very quick and easy.

**For more information, do not hesitate to contact us at any time.*

Authorized distributor

We design and build Medical Vacuum Systems ULTRAVAC® with vacuum pump capacities from 3 to 1600 m³/h. Centralized systems with 1 to 12 vacuum pumps. For the most appropriate medical device, consult our Engineering Department.



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