

ULTRAVAC®

Medical Vacuum Systems



www.ultracontrolo.com.pt

Made in Portugal

ULTRAVAC® Medical Vacuum Systems

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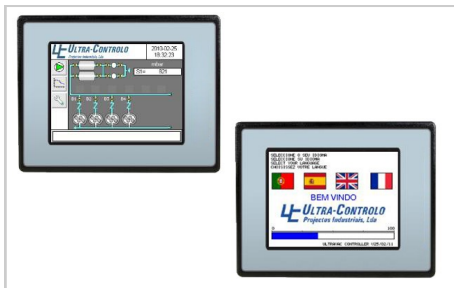
ULTRAVAC® Systems

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.

QuVAC Touch-Screen Controllers !



Regulatory Compliance

ULTRAVAC® Medical Vacuum Systems comply and surpass the requirements of international standards ISO 7396, HTM 02, including European Directive 93/42/EC.

The Medical Vacuum System, ULTRAVAC® carries the Medical Device Certification code number CE-0120.

Besides, ULTRAVAC® Systems are designed and manufactured under an EN ISO 13485:2012 and ISO 9001:2008 Quality Management Systems.

Bacterial Filters with differential vacuum control!



Medical Vacuum System, ULTRAVAC 3.75/500
horizontal version

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.



Medical Vacuum System,
ULTRAVAC 3.100/1000 vertical version

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 local needs and country regulations.

Vacuum Pumps

Wide selection of technologies according to your requests. Please see the window box.

Bacterial filters

High-efficiency filters for bacteria retention with vacuum differential gauges and isolating valves

- Simplex
- Duplex

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

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

Liquid Separator

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

Condensate Collection

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

Information in real time!



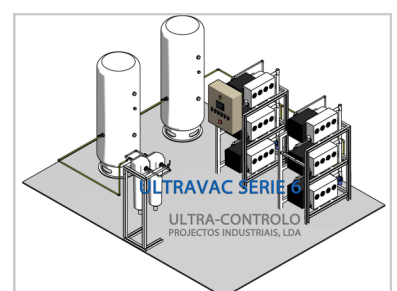
Medical Vacuum System, ULTRAVAC 4.500/2000-CLP with dry rotary claw vacuum pumps, without oil (no maintenance required!)

Standard Pump Technologies used in our ULTRAVAC Systems:

- OLP** - Oil lubricated vane pumps
- DRP** - Dry running vane pumps
- CLP** - Dry running claw pumps
- LRP** - Liquid ring pumps



Medical Vacuum System ULTRAVAC 4.250/800-CLP with claw pumps, including oxygen handling versions. Without maintenance!



ULTRAVAC®

Raising medical gases quality standards

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.

Electrical components are oversized in order to avoid any need of replacement.

It's a real peace of mind for all!



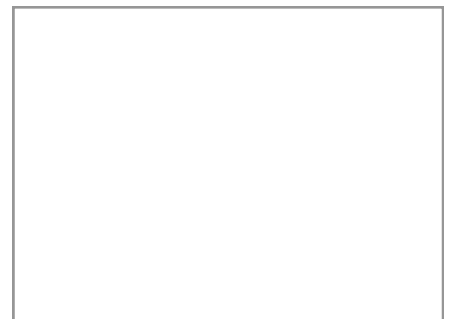
With Elmo-Rietschle vacuum pumps VC-V series, preventive maintenance is made in a snap, saving a lot in service and parts.

QUALITY PROVEN YEAR AFTER YEAR

- ▶ Large hundreds of ULTRAVAC® Medical Vacuum Systems running continuously since 1987
- ▶ Thousands of Rietschle vacuum pumps running in the hospitals 24/24h
- ▶ The largest vacuum pumps installed in portuguese hospitals are Rietschle pumps
- ▶ The ULTRAVAC® has a **full guarantee of 5 years or 30,000 hours** of continuous duty
- ▶ Service Centre certified according to Quality Management System ISO 9001:2008 and EN ISO 13485:2012.

Type	Capacity m ³ /h		Motor Power KW		Noise level dB (A)	Weight Kg	Vessel volume liters
	50 Hz	60 Hz	50 Hz				
			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	3x1,0	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	3x2,2	-	67	580	1000
3.150/1000	3x150	3x180	3x3,0	-	69	600	1000
3.200/1000	3x200	3x240	3x4,0	-	71	760	1000
3.300/1000	3x300	3x360	3x5,5	-	74	940	1000

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**

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