



www.vortice.com

AIR TREATMENT



SANITARY AIR HANDLING UNIT SANITIZABLE
FOR HOSPITAL AND PHARMACEUTICAL INDUSTRY

NEW



Vortice main company's philosophy is the concept that "air is our life". Our mission is always to provide effective solutions for improved air quality using the latest technology to develop and manufacture effective products worldwide.

Our current Vortice Headquarters have been located in Tribiano (Milan) since 1972.

Vortice has achieved European market leadership by dedicating their efforts to the production of products for ventilation, climate control, heating, extraction, purification and the treatment of air, for domestic, commercial and industrial applications. Since 1954 Vortice has been synonymous with quality and excellence and continues to make significant improvements by investing in continuous research to improve the efficiency and quality of its products.

VORTICE IN THE WORLD

FRANCE



Founded in 1974, Vortice France is located at Créteil about 10 Km from Paris.

ENGLAND



Founded in 1977, Vortice Limited is located at Burton on Trent in the East Midlands.

CHINA



Founded in 2012, Vortice Ventilation System is located about 200 Km from Shanghai.

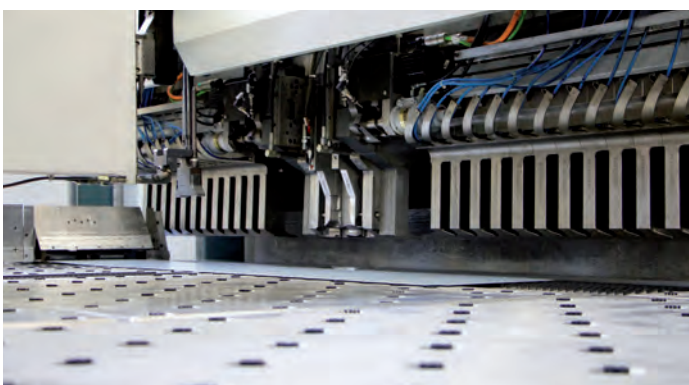
SOUTH AMERICA



Founded in 2012, Vortice Latam is located in San José, Costa Rica.



In the industrial area of Isola della Scala, in the province of Verona. Surface: 12.000 m² Production unit: 6.000 m²





ALBA
PULSAR
PULSAR
PULSAR
PULSAR

ENTRATA LAVORANDO
SU ALBA PER IL FUSIONE
PULSAR LASER





Mission & People

*“In respect of the environment
and people, we work to contribute
to the welfare and progress
of society through the creation
of highly specialized solutions
for industrial climate, able to
anticipate and meet the needs
of our customers”*



NEW

CTL “HYGIENIC TYPE”

Sanitary air handling unit sanitizable
for hospital and pharmaceutical industry

BRIEF DESCRIPTION

Sanitary air handling unit with all the necessary features for through cleaning and access to all internal surfaces. The use of drain pans in each section and the option of removing internal components for correct maintenance and sanitizing are the features that set this unit apart. Sloped drain pans to encourage sanitizing liquids to drain freely and prevent the accumulation of stagnant condensate. EUROVENT Certified.

Technical Features

STRUCTURE

- Unit cabinet made from thermal break anodized aluminium profiles fastened with stainless steel screws to 50 mm or 63mm-thick sandwich panels, rounded on the inside to prevent dirty buildup and encourage effective sanitizing.
- Sandwich panels made from AISI 304 or AISI 316 stainless steel.
- Sandwich panel insulation consists of mineral wool with a minimum density of 80 kg/m³ or injected polyurethane with a density of 40 kg/m³.
- Air handling unit base made from thick stainless steel with variable height to accommodate a trap of a suitable height for the pressures being handled, with the option of adding adjustable feet.
- AISI 304 or AISI 316 drain pans on all the unit's sections to prevent the accumulation of stagnant condensate or sanitizing liquids.

- Internal frame made from AISI 304 or AISI 316 stainless steel designed and built so that there are no protuberances, sharp edges or corners that cannot be reached, potentially harbouring dirty. Inside corners are rounded for easy cleaning and disinfection, as specified in the directive 2006/42/EEC.

HEAT EXCHANGE COILS

- Uses any type of coil (water, direct-expansion, steam, oil) and any combination of materials (tubes made of stainless steel, copper; fins made of aluminium, copper, stainless steel). AISI 304 or AISI 316 stainless steel coil frames.
- Minimum 10 cm spacing between coils to allow room for inserting indicator or control instruments.
- Coils can be removed individually from both sides of the unit.
- Coils are raised above the drain pan underneath, providing clearance to allow sanitizing.





MAINTENANCE

- Internal lighting at each inspection door provided with waterproof lamps, switched on with a similarly waterproof switch located on the outside.
- Appropriate number of suitably sized inspection doors to afford easy access to all areas inside (for inspection and/or maintenance purposes) and to allow for the disconnection and removal of fans, filters, silencers and anything else required. Each door has 4 handles that are also suitable for pressurized sections, enabling doors to swing open either left or right and to be removed completely.

PRODUCT MODULARITY

- Blankets attenuators varying in length and thickness, arranged horizontally so that they can be pulled out from the side to allow for the unit to be sanitized inside. Blankets made from sound-absorbing material (glass wool protected

with clear plastic film and with a density of at least 80 kg/m³), clad in pinhole perforated AISI 304 or AISI 316 sheet stainless steel.

- Dampers providing a perfectly airtight seal when closed.
- Air quality assured by the use of F7-F9-H13 filtering systems.
- Heat exchange coils made with suitable materials for sanitizing.
- Mains steam humidifiers or humidification systems generating steam using immersed electrodes or heating elements.
- Direct-driven plug fans without scroll.

OPTIONS

- Option of ordering unit complete with power and control cabinet and control package (servo motors, servo valves, sensors, transmitters, frequency converters, etc.) including wirings (power, signal and control). The cabinet contains all equipment for the control, protection and safety of each of the unit's electrical loads and the controls.



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