



AIR TREATMENT 

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|---|---|---|--|--|
| 
FILTERED AIR | 
PURIFIED AIR | 
SILENT | 
PLUG&PLAY | 
LOW CONSUMPTION |
| 
MITES | 
POLLEN | 
DROPLETS | 
BACTERIA | 
VIRUSES |

DEPURO PRO RANGE COMMERCIAL AIR PURIFIERS

NEW



VORTICE S.p.A. is part of a multinational group, **VORTICE GROUP**, which operates through its own companies or local distributors in over 90 countries worldwide and has a rich product portfolio that guarantees air quality and climate comfort. The headquarters of VORTICE S.p.A are in Tribiano (Milan).



VORTICE GROUP also includes:

[1]
VORTICE UK Ltd, English branch of VORTICE S.p.A, established in 1977 and based in Burton on Trent.

[2]
VORTICE INDUSTRIAL, born from the acquisition in 2010 of Loran srl, based in Isola della Scala (VR).

[3]
VORTICE Ventilation System, a company inaugurated in 2013 with headquarters in Changzhou, China.

[4]
VORTICE Latam, based in San José in Costa Rica, born in 2012.

[5]
CASALS VENTILACIÓN AIR INDUSTRIAL S.L., historic Spanish brand, based in Sant Joan de les Abadesses, Girona, acquired in 2019.

AIR PURIFIERS

PURIFYING the air in the home, in the office or in any enclosed space is important for greater well-being of those who live in it.

The simple exchange of air with the outside does NOT always bring full benefits: just think of the smog caused by cars, the pollutants generated by domestic heating or released by industries.

Correct ventilation of rooms, with frequent air changes removes pollutants. Preventing high concentrates and therefore preserving the well-being of the occupants.

CERTIFICATIONS

The products of the DEPURO PRO range comply with the following European Norms, Directives and Regulations:









- Electrical Safety Regulations: EN 60335-1; EN 60335-2-65; EN 60529; EN 62233;
- Electromagnetic Compatibility Regulations: EN 55014-1; EN 55014-2; EN 61000-3-2; EN 61000-3-3;
- Machinery Directive (2006/42/EC);
- Electromagnetic Compatibility Directive (2004/108/EC);
- ECODESIGN Design Directive 2009/125/EC, according to the following regulations:
 - European Regulation No. 327/2011/EU Fans;
 - European Regulation No. 1253/2014/EU Non-Residential Ventilation Unit.



DEPURO PRO RANGE

Air purifiers for commercial and industrial applications up to a surface of 100 m²

BENEFITS FOR THE USER

-  **Effectiveness regarding microorganisms**, thanks to the very high filtering capacity of the pair of **HEPA H14 absolute filters**, capable of retaining up to 99.995% of microparticles (equivalent diameter 0.3 µm).
-  **Reduced consumption**, due to high efficiency fans driven by **EC motors (brushless)**.
-  **Ease of use**: just insert the plug into the electrical outlet, **Plug and Play**.
-  **Silent operation**, guaranteed by the housing made with sound-absorbing panels.
-  **Easy handling**, due to the 4 wheels and a pair of handles.
-  **Simple and intuitive management**: **the integrated control panel** facilitates the setting of the operating modes.
-  **Simplicity of maintenance**:
 - the need to replace the filter is signaled by the control panel;
 - the filters are easily replaceable thanks to the quick release of the panels.
-  **Great robustness**, as a result of the design and construction solutions adopted, typical of the industrial sector, starting from the casing, which boasts excellent resistance to impact and corrosion.

THE DEPURO PRO units have a high filtering capacity: the pair of HEPA H14 absolute filters is able to retain pollutants such as pollen, spores, droplets and microparticles, potential vectors of viruses and bacteria, thus significantly limiting the risk of contracting allergies, asthma, respiratory problems and infections.



APPLICATIONS

PHARMACIES



WORKSHOPS



OFFICES



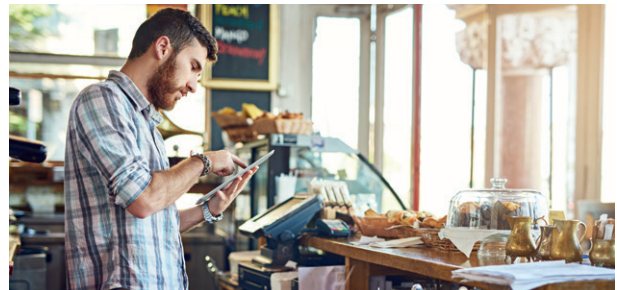
PROFESSIONAL OFFICES



SHOPS AND WORKSHOPS



RESTAURANTS AND BARS



BEAUTY CENTERS



GYMS



COMMON ROOMS AND WAITING ROOMS



SCHOOLS AND KINDERGARTENS





DEPURO PRO RANGE

Air purifiers for commercial and industrial applications up to a surface of 100 m²

TECHNICAL FEATURES

AVAILABLE MODELS:

- 2 models available: **DEPURO PRO 150** (code 25038) up to 50 m² and **DEPURO PRO 300** (code 25039) up to 100 m².

CHASSIS:

- Extruded aluminum profile, 30 mm thick, with nylon corner joints.
- Sandwich panels 25 mm thick in pre-painted steel sheet, light gray, RAL 9006, class M0, with anti-corrosion finish, acoustically insulated with fire-resistant rock wool (class A1), density 90 Kg/m³.
- Rectangular air intake and delivery ports complete with protection grilles.

FILTERS:

- Dual-stage filtering system composed of:
 - 2 ISO Coarse 65% (G4) class pre-filters located in correspondence of the intake ports;
 - 2 HEPA H14 absolute filters, capable of retaining up to 99.995% of microparticles (equivalent diameter 0.3 μm).
- The pre-filters, placed in correspondence of the intake ports, retain the macro impurities of the air, protecting the absolute filters behind them and thus prolonging their life. The need for periodic replacement of the filters is indicated on the control panel on the machine.

FANS:

- High efficiency fan, adjustable in the range 0-100% by means of the potentiometer integrated in the control panel. Each fan consists of a single-phase EC (brushless) motor of the external rotor type, IP44 protection, class B insulation, directly coupled to a centrifugal, self-cleaning impeller with reversed blades, moulded in polyamide, statically and dynamically balanced at the factory.

CONTROL PANEL:

- Control panel, located on one of the side walls of the product, for:
 - turning the product on and off;
 - daily programming options available, which enables the product to automatically switch on/off;
 - manually setting the operating mode: manual (switching on and off are left to the user) or Automatic (time programming previously set);
 - 10-step adjustment of the treated air flow;
 - filter status indicator;
 - indication, distinguished by type, of the occurred saturation of the filters (G4 and H14) and the consequent need for their replacement.

TECHNICAL DATA

PRODUCT	CODE	V~50/60Hz	W max	A max	RPM max	MAX FLOW RATE (m ³ /h)	SURFACES UP TO (m ²)	Lp dB (A) 6m	TEMP. °C min/max	WEIGHT Kg
DEPURO PRO 150	25038	220-240	34	0.40	3980	300	50	41	-25/50	30
DEPURO PRO 300	25039	220-240	78	0.70	3600	600	100	44	-25/50	50



2 HEPA H14 FILTERS, capable of retaining up to 99.995% of microparticles (equivalent diameter 0.3 μm).

Quiet operation, guaranteed by sound-absorbing sandwich panels.



Panels with quick release closure that provide easy access to the filters.



Plug&Play.



Equipped with Brushless motors.

Control panel for the adjustment of the Depuro Pro.



Low consumption.

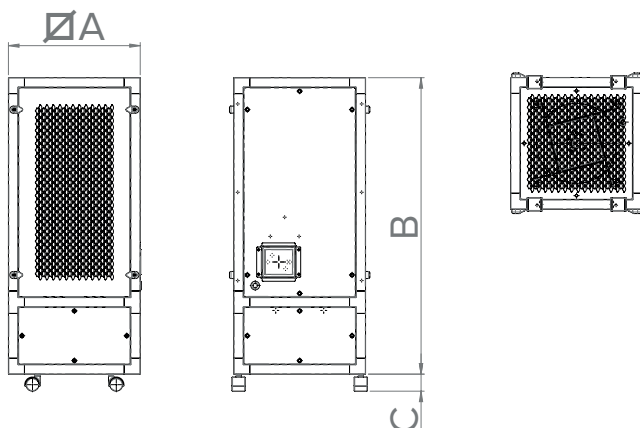


Power cable 3 meters long, complete with Italian plug and UK adapter.

Easily transportable, thanks to a pair of handles and 4 wheels for easier movement of the product.



DIMENSIONS



PRODUCT	∅A	B	C
DEPURO PRO 150	412	622	53
DEPURO PRO 300	412	927	53

Dimensions in mm

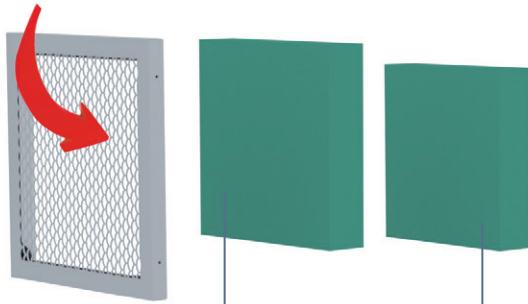


DEPURO PRO RANGE

Air purifiers for commercial and industrial applications up to a surface of 100 m²

FILTERS ...that block almost everything

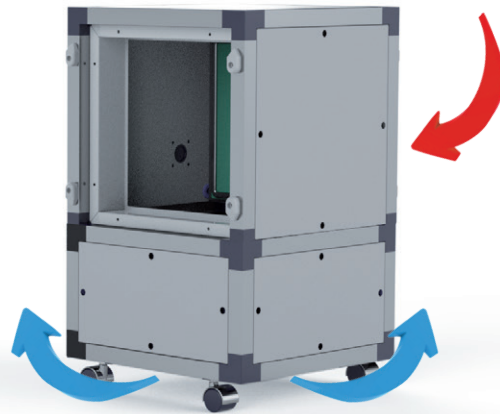
CONTAMINATED AIR INLET



Pre-filter class
ISO Coarse 65% (G4)

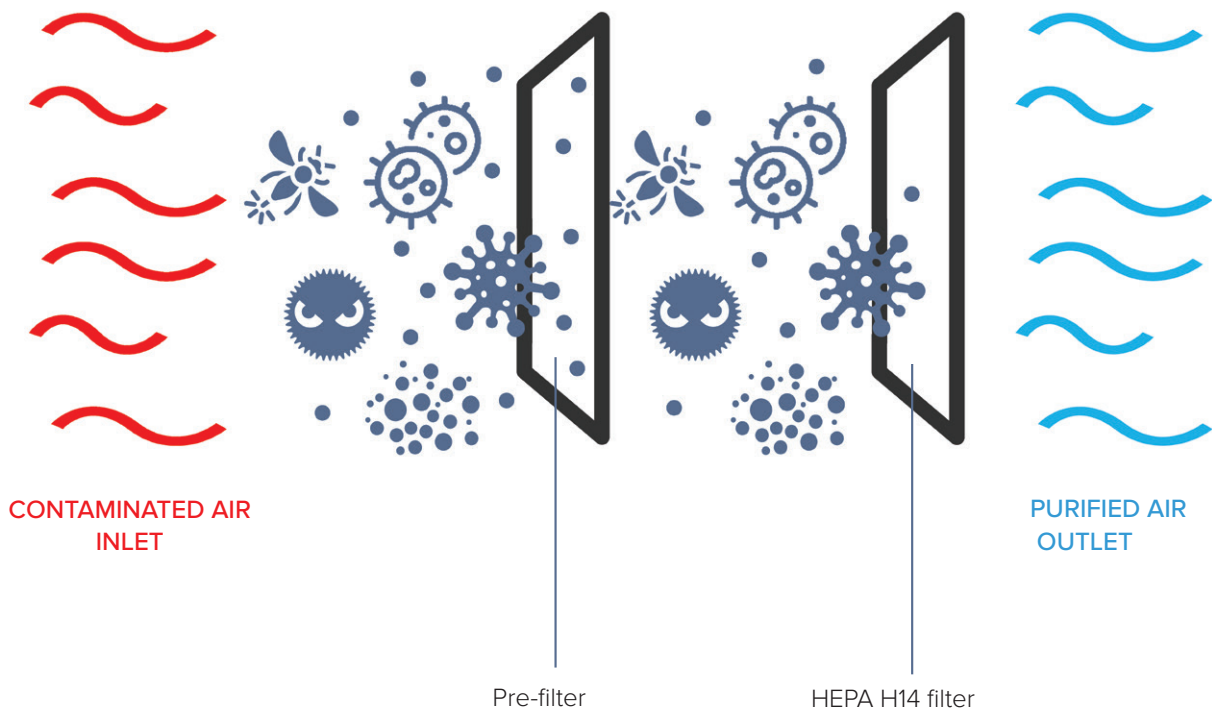
HEPA H14 filter capable of retaining
up to 99.995% of microparticles
(equivalent diameter 0.3 μm)

CONTAMINATED AIR INLET



PURIFIED AIR OUTLET

FILTERING PROCESS ZOOM









FILTERS

ISO COARSE 65% PRE-FILTERS (G4):

- 2 ISO Coarse 65% (G4) class pre-filters located in the intake ports;
- the pre-filters, placed in the intake ports, retain the macro impurities of the air, protecting the absolute filters behind them and thus prolonging their life.

HEPA H14 FILTERS:

- 2 HEPA H14 absolute filters, capable of retaining up to 99.995% of microparticles (equivalent diameter 0.3 μm);
- HEPA filters are highly effective and guarantee the control of coarse, fine and ultra-fine dust particles, allergens and microorganisms.

	DESCRIPTION	CODE	DEPURO PRO 150	DEPURO PRO 300
	2FTR-ISO COARSE 65% (G4) 287x287x24 Pair of ISO Coarse 65% (G4) class filters for DEPURO PRO 150. Dimensions: 287 x 287 x 24 mm	13040	✓	
	2FTR-ISO COARSE 65% (G4) 287x592x24 Pair of ISO Coarse 65% (G4) class filters for DEPURO PRO 300. Dimensions: 287 x 592 x 24 mm	13041		✓
	2FTR-H14 305x305x66 Pair of H14 absolute filters for DEPURO PRO 150. Dimensions: 305 x 305 x 66 mm	13042	✓	
	2FTR-H14 305x610x66 Pair of H14 absolute filters for DEPURO PRO 300. Dimensions: 305 x 610 x 66 mm	13043		✓

FILTER MAINTENANCE

Filters are easily replaceable thanks to the quick release of the panels.

The need for periodic replacement of the filters is indicated on the control panel on the machine.

The duration of the filters in a purifier depends on three factors: the hours of use, the flow of treated air (in turn according to the rotation speed of the fan) and the concentration of pollutants in the room.

All this being said, in general it is possible to replace the G4 filters on average every 4/6 months in the presence of relatively clean air (offices and commercial buildings in general) or every 2/4 months if the treated air is charged with pollutants (e.g. warehouses, workshops, etc.). These intervals increase respectively to 10/12 months, or 8/10 months, for the HEPA H14 absolute filters.

ATTENTION. Given the high retention capacity of polluting agents dangerous for health, such as pollens, spores and microorganisms (bacteria and viruses), when replacing the filters it is recommended to use appropriate individual protective equipment (mask, gloves, glasses) designed to prevent inhalation and, more generally, direct contact.



DEPURO PRO RANGE

Air purifiers for commercial and industrial applications up to a surface of 100 m²

FAQ

FOR WHICH CONTEXTS ARE THE PURIFIERS OF THE DEPURO PRO RANGE BEST SUITED?

The DEPURO PRO purifiers are characterised by high flow rates of treated air, suitable for large environments (150 and 300 m³, depending on the model), and by the provision of absolute filters, capable of blocking the polluting particles present in the treated air, potentially harmful to health or such as or compromises the air quality in production processes. Thanks to their ability to generate a high flow of sterile air, the purifiers of the DEPURO PRO range are ideal for analysis laboratories, medical and dental offices, offices, meeting rooms, bars, restaurants, gyms, fitness centres, beauty centres, shops, professional offices, pharmacies, RSA, schools and kindergartens, warehouses and logistics centres, workshops, etc.

WHAT IS THE FILTERING EFFECTIVENESS OF THE DEPURO PRO PURIFIERS?

The purifiers of the DEPURO PRO range are equipped with a two-stage filtering section, consisting of a pair of ISO Coarse 65% pre-filters (G4 according to the old classification), capable of reducing up to 65% of PM₁₀. They retain dust and macro impurities and thus protect the underlying pair of HEPA H14 absolute filters, capable of retaining 99.995% of particles <= 0.3 microns in size, the most dangerous for health, given their ability to reach the pulmonary alveoli, the last offshoots of our respiratory system.

DOES DEPURO PRO HAVE HIGH PERFORMANCE HEPA 14 ABSOLUTE FILTERS?

Yes, all the filters that equip the purifiers of the DEPURO PRO range are subjected to strict laboratory tests that evaluate their effectiveness and ensure the achievement of the nominal abatement capacity. The HEPA H14 absolute filters of each purifier of the DEPURO PRO range are supplied as fully protected and sealed units and are accompanied by a specific and unique certificate, which testifies to their effectiveness.

ARE DEPURO PRO PURIFIERS EFFECTIVE AGAINST COVID-19?

According to the World Health Organization (WHO), most disease-causing pathogens are transmitted from person to person by air or by contact. Transmission by air is carried out through vectors such as droplets, of an average size greater than 5 microns, which can remain suspended in the air for a few minutes, and aerosols, between 2 and 5 microns, capable of floating for longer periods, according to their size and environmental conditions. Another possible vector seems to be, according to some hypotheses still under investigation, the microparticulate (PM) present in the air.

The most recent studies conducted on the coronavirus SARS-COV-2, the cause of the COVID-19 pandemic, whose average size is between 0.1 and 0.16 microns, identify the main source of infection in airborne transmission*. Droplets and aerosols produced by coughs, sneezing, breathing, as well as toilet flushes and some medical procedures, once released into the environment, before decaying, retain an infectious charge for several hours, contaminating in the meanwhile surfaces and objects and thus creating the conditions for the spread of the infection through contact with eyes, nose and mouth.

The pair of HEPA H14 absolute filters that equips each DEPURO PRO is able to retain 99.995% of the particles present in the treated air with dimensions <= 0.3 microns, erecting an effective, albeit not absolute, barrier against the vectors through which the virus partially spreads. Therefore, the use of DEPURO PRO purifiers makes it possible to reduce the concentration of the virus present in the environment, limiting the risks of infection.

WHAT IS THE MAXIMUM VOLUME FOR WHICH THE DEPURO PRO PURIFIERS ARE EFFECTIVE?

The effectiveness of a purifier depends on the volume of the environment and the concentration of pollutants in it. The smaller the environment, and therefore the volume of air to be cleaned, and the lower the pollution rate, the faster the purifying action will be. Given the above, the maximum volume of the target environments of the DEPURO PRO range purifiers is respectively 150 m³ for the 150 model and 300 m³ for the 300 model, corresponding to surfaces of 50 m² and 100 m² respectively, in the hypothesis of ceilings 3 m high.

*Source: Scientific and technical information on Coronavirus disease, COVID-19 (update; 4 April 2020) of the Spanish Ministry of Health, page 11, point 2.1.



FAQ

Of course, by leaving doors open, it is possible to benefit from the action of the single product in multiple rooms.

WHERE TO PLACE THE DEPURO PRO PURIFIERS FOR BEST RESULTS?

To achieve the best results in terms of speed and purification effectiveness, it is advisable to place the product in the room whose air you intend to treat. The wheels facilitate the movement of the unit.

HOW CAN I OPTIMIZE THE EFFECTIVENESS OF DEPURO PRO?

The effectiveness of a purifier depends, with the same construction and quality of the mounted filters, on the treated air flow rate: the greater the volume of air passing through the filters, the less time it takes to reduce the polluting charge present in the environment.

Therefore, **the best performance of DEPURO PRO is obtained when its fan operates at the highest speed among those available**, compatibly with the acoustic comfort of those present (see the following point in this regard). To ensure adequate levels of environmental comfort **it is advisable not to turn off the purifier when the air quality improves or the room is not occupied, but rather to reduce the fan speed to lower consumption and noise emissions while still reducing the pollutant rate.**

ARE DEPURO PRO PURIFIERS SILENT?

To be effective, a purifier must:

- be equipped with filters capable of effectively retaining pollutants;
- be designed and constructed so as to avoid leakage and thus ensure that all the treated air is effectively filtered;
- fit a fan powerful enough to treat an air flow rate suitable for the size of the environment to be purified, in order to ensure its effective purification.

All this being said, it follows that a purifier, to be truly effective, cannot be completely silent. Products advertised on the basis of this feature are often not very effective, either because they are equipped with inefficient filters, or because they are equipped with poorly performing fans.

The purifiers of the DEPURO PRO range are equipped with EC fans whose speed is adjustable on 10 levels, so as to ensure the initial rapid reduction of the polluting charge present in the environment and the subsequent maintenance of adequate air quality levels to guarantee the health and comfort of the occupants, without causing excessive disturbance.

DO DEPURO PRO PURIFIERS NEED MAINTENANCE?

The correct use of the purifiers of the DEPURO PRO range does not require any intervention beyond the periodic replacement of the filters.



Do you need assistance on this product?

Contact our customer service

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