



AIR TREATMENT 

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

## VORTRONIC RANGE

### AIR PURIFIERS AND IONIZERS



**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).



The VORTICE GROUP also includes:

[1] **VORTICE LIMITED**, the UK subsidiary of VORTICE S.p.A. founded in 1977 with headquarters in Burton upon 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 Alajuela 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 VORTRONIC 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.



# VORTRONIC RANGE

Air purifiers and ionizers for commercial and industrial applications for volumes up to 200 m<sup>3</sup>

## BENEFITS FOR THE USER

-  **High filtering capacity:** specific tests conducted by the **Faculty of Medicine and Surgery of the University of Milan** on particulates, dust, cigarette smoke and pollen have shown how **VORTRONIC purifiers are capable of eliminating up to 98% of airborne particles.**
-  **High purifying capacity** given by the **pre-filter** and the **electrostatic filter**, which makes it possible to separate polluting substances (such as dust or oily vapors) from the incoming air flow, and the presence of a **ionization system**, correctly sized to contain ozone emissions well below the safety limits set by the standards and capable of improving environmental comfort.
-  **Ease of use:** just insert the plug into the electrical outlet, **Plug and Play.**
-  **Simple and intuitive management:** the **integrated control panel** facilitates the selection of the desired operating speed, the activation of the filtering electrodes (ionization purification function) and the setting of the delayed on/off timer (available only for VORTRONIC 200 T).
-  **Installation versatility.** To meet different needs, VORTRONIC 35 RF, VORTRONIC 50 and VORTRONIC 100 can be positioned horizontally on a table/support, vertically on the floor using the special support supplied as standard, or mounted on the wall, through the optional kit. Easy handling of VORTRONIC 200 T, thanks to the 4 wheels located on the bottom of the appliance.
-  **Easy maintenance:** the special red indicator light indicates the need of replacing the filters, for the optimal use of the product.

The VORTRONIC range has a high filtering capacity, verified by tests conducted by the Faculty of Medicine and Surgery of the University of Milan. The filtration system of the appliances is able to retain microparticles present in the air such as pollen, spores, droplets and microparticulate potential vectors of viruses and bacteria, thus significantly limiting the risk of contracting allergies, asthma, respiratory problems, eye infections, irritation of the nasal mucous membranes or skin reactions (eczema).





## APPLICATIONS

LIVING AREA



BEDROOMS



CLASSROOMS



OFFICES



MEDICAL OFFICES AND LABORATORIES



BARS AND RESTAURANTS



SMALL BUSINESSES



CRAFT SHOPS AND WORKSHOPS



BEAUTY CENTERS



GYMS





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## TECHNICAL FEATURES

### AVAILABLE MODELS:

- 4 models, different in size, filtering capacity: **VORTRONIC 35 RF** (code 25022) up to 35 m<sup>3</sup>, **VORTRONIC 50** (code 25080) up to 50 m<sup>3</sup>, **VORTRONIC 100** (code 25081) up to 100 m<sup>3</sup> and **VORTRONIC 200 T** (code 25082) up to 200 m<sup>3</sup>.

### CHASSIS:

- Shockproof plastic resin enclosures, light gray (VORTRONIC 35 RF) and black (VORTRONIC 50 and VORTRONIC 100), or black wood (VORTRONIC 200 T).

### FILTERS:

- 3-stage filtering system for VORTRONIC 35 RF and 4-stage for all other models.
- the pre-filters 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:

- 3-speed thermal protected twin-shaft motors for the best balance between performance and noise emissions, with shafts mounted on bushings with self-centering and self-lubricating manifolds to guarantee quiet and reliable operation for a duration consistent with the destination of the products. Motor mounts equipped with rubber anti-vibration mounts.
- Pairs of centrifugal impellers in plastic resin resistant to aggressive agents.

### CONTROL PANEL:

- Control panel on the machine for:
  - turning the product on and off;
  - activating/deactivating the filtering electrodes;
  - selecting the 3 operating speeds by rotary command;
  - setting the 24h timer for the delayed switching on and off of the product (VORTRONIC 200 T);
  - signaling, through an indicator light, the occurred saturation of the electrostatic filter (all models except for VORTRONIC 35 RF).

## TECHNICAL DATA

PRODUCT	CODE	V~50Hz	W max	A max	SURFACES UP TO (m <sup>2</sup> )	Lw dB (A) 3m	WEIGHT Kg
VORTRONIC 35 RF	25022	230	30	0.27	35	54	3.7
VORTRONIC 50	25080	230	36	0.22	50	55	5.0
VORTRONIC 100	25081	230	36	0.22	100	55	5.9
VORTRONIC 200 T	25082	230	72	0.38	200	56	29.5



Control panel with indicator lights and daily programmer with 15 minute intervals.

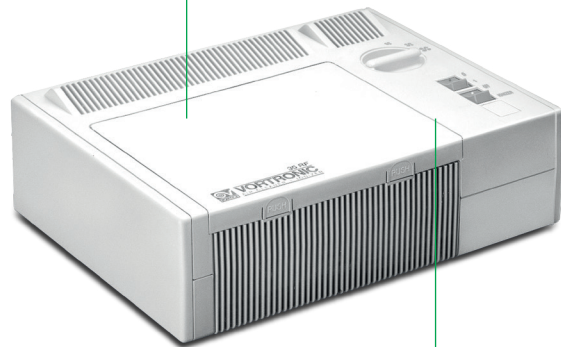


Quiet operation.  
The first speed can be used at night in the bedroom.



Low consumption.

Small dimensions and weights for the models VORTRONIC 35 RF, VORTRONIC 50 and VORTRONIC 100 .



Easily portable, thanks to 4 wheels for easier movement of the product.



Plug&Play.



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



Control panel with indicator lights VORTRONIC 35 RF.



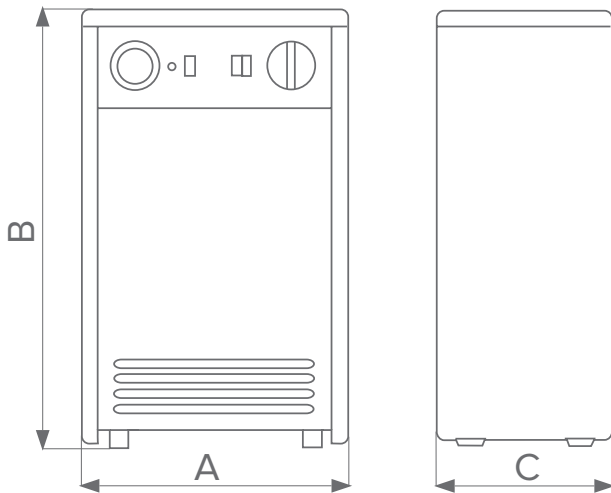
Control panel with indicator lights and saturated filter light VORTRONIC 50 and VORTRONIC 100.



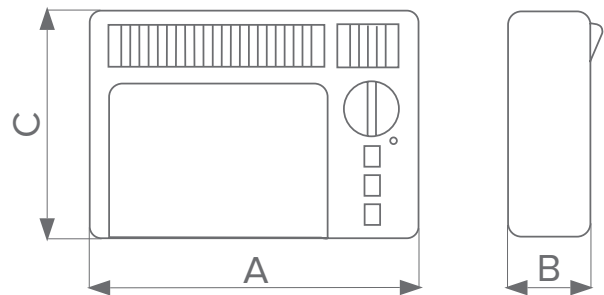
# VORTRONIC RANGE

Air purifiers and ionizers for commercial and industrial applications for volumes up to 200 m<sup>3</sup>

## DIMENSIONS



VORTRONIC 200 T



PRODUCT	A	B	C
VORTRONIC 35 RF	420	120	315
VORTRONIC 50	420	120	315
VORTRONIC 100	540	120	315
VORTRONIC 200 T	425	800	370

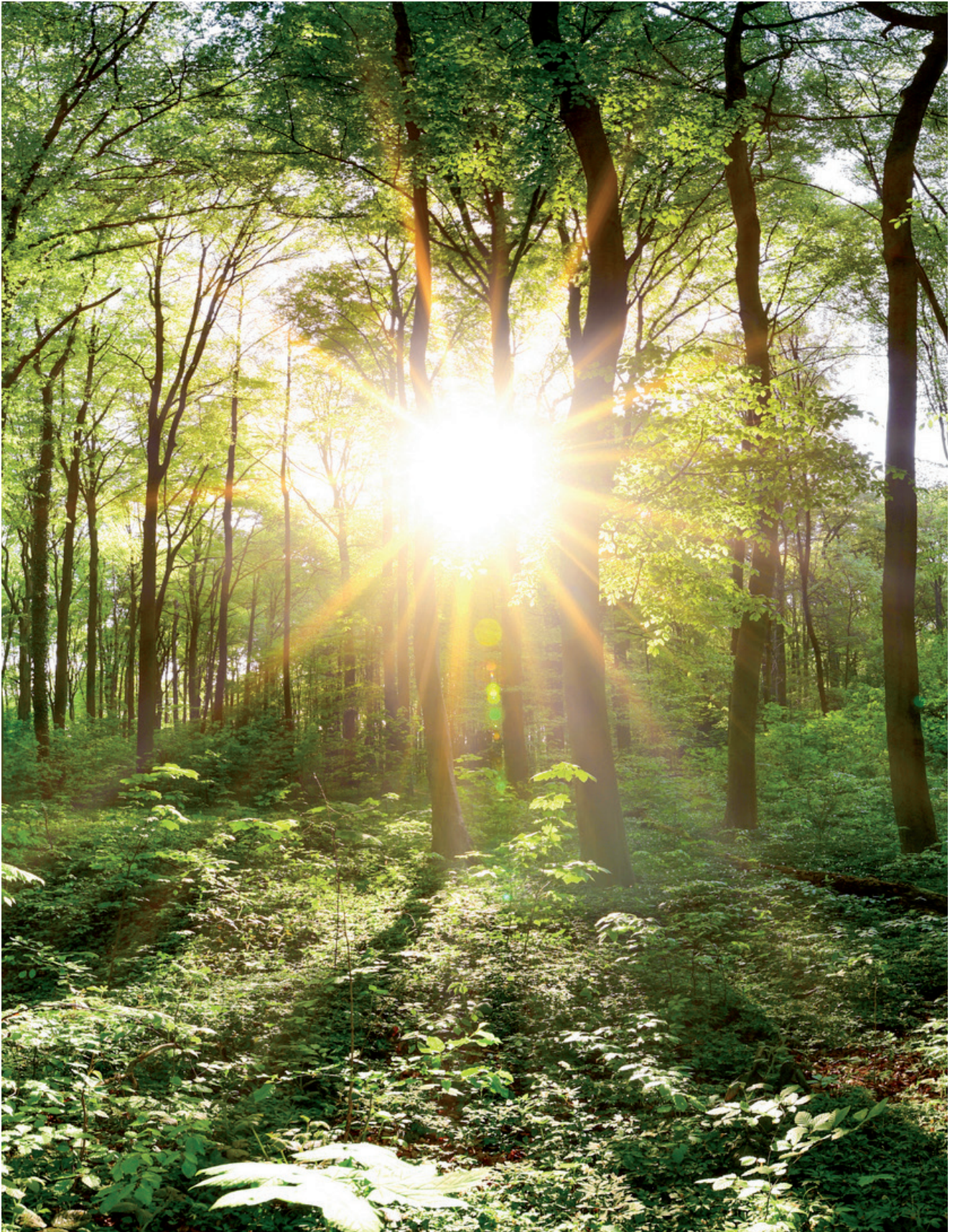
Dimensions in mm

## INSTALLATION

- Vertical floor installation thanks to the specific accessory (base), supplied as standard (all models except Vortronic 200 T).
- Wall installation through the special kit available as an accessory (all models except Vortronic 200 T) code 22014.







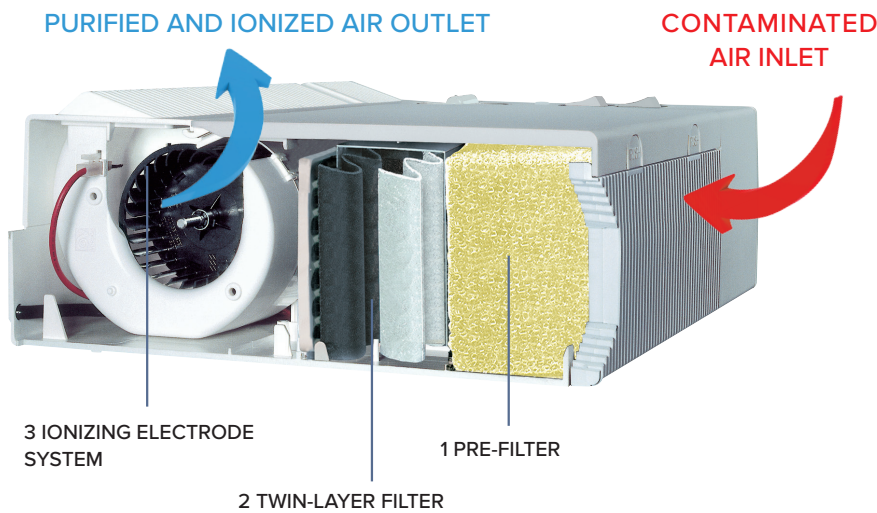


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## FILTERING SYSTEM

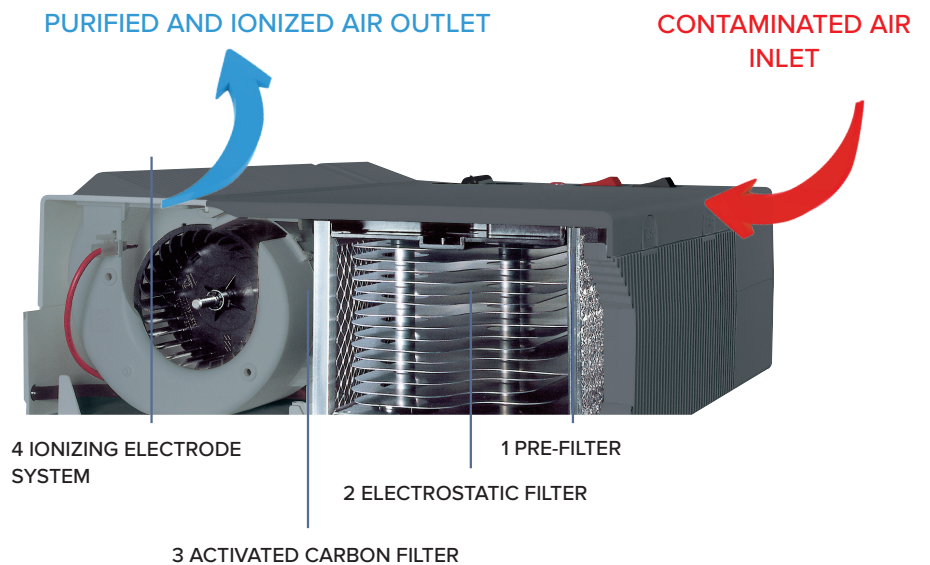
### 3-STAGE FILTERING SYSTEM VORTRONIC 35 RF



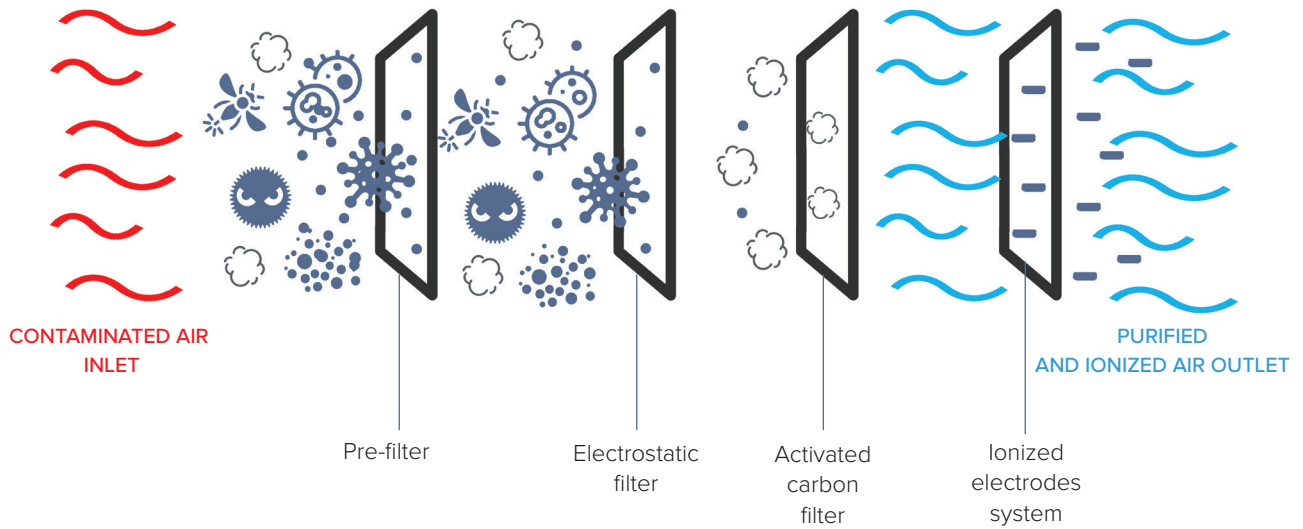
- 1 PRE-FILTER washable in plastic: it eliminates the large impurities present in the air, captures threads, dusts, hair.
- 2 DOUBLE LAYER FILTER electrostatically charged and impregnated with activated carbon.
- 3 IONIZING ELECTRODE SYSTEM able to improve air quality by enriching it with negative ions, air particles essential to always maintain a high degree of healthiness of the air we breathe. The system is sized for full containment of ozone emissions and well below the safety limits set by the standards.

### 4-STAGE FILTERING SYSTEM







- 1 PRE-FILTER washable in aluminum mesh: it eliminates the large impurities present in the air, captures threads, dusts, hair.
- 2 ELECTROSTATIC FILTER electronically controlled and able to retain the smallest impure particles, even microscopic ones (such as smoke, pollen and dust) that have managed to pass beyond the pre-filter). They are also dishwasher safe (max 60 °C).
- 3 GRANULAR ACTIVATED CARBON FILTER able to eliminate bad smells.
- 4 IONIZING ELECTRODE SYSTEM able to improve air quality by enriching it with negative ions, air particles essential to always maintain a high degree of healthiness of the air we breathe. The system is sized for full containment of ozone emissions and well below the safety limits set by the standards.



ZOOM 4-STAGE FILTERING PROCESS



**FILTERS**

	DESCRIPTION	CODE	VORTRONIC 35 RF	VORTRONIC 50	VORTRONIC 100	VORTRONIC 200 T
	<b>DISPOSABLE FILTER PACK V35 RF</b> Twin-layer filter (1 filter packs). Dimensions: 259x104x55 mm	22001	✓			
	<b>PACK OF 2 NSE10 V35 RF FILTERS</b> Pair of polyester polyurethane pre-filters (2 filter packs). Dimensions: 265x105x80 mm	22002	✓			
	<b>POLYEST. ACTIVATED CARBON FILTERS FOR DEPURO 50</b> Pair of activated carbon filters (2 filter packs). Dimensions: 254x108x9 mm	22009		✓		
	<b>POLYEST. ACTIVATED CARBON FILTERS FOR DEPURO 100</b> Pair of activated carbon filters (2 filter packs). Dimensions: 374x108x9 mm	22013			✓	
	<b>POLYEST. ACTIVATED CARBON FILTERS FOR DEPURO 150/200</b> Pair of activated carbon filters (2 filter packs). Dimensions: 378x320x24 mm	22008				✓
	<b>CARBOCOCCO FILTER FOR 200 PURIFIERS</b> Granular carbococco filter (1 filter packs). Dimensions: 320x378x12 mm	22018				✓



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## FILTER MAINTENANCE

The filters are easily removable from all models of the VORTRONIC range to be replaced or washed.

The need for periodic replacement of the filters is indicated on the control panel on the machine by an indicator light (except for Vortronic 35 RF).

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.

**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.



DISPOSABLE FILTER



ELECTROSTATIC PRECIPITATOR



ELECTROSTATIC PRECIPITATOR CLEANING



METAL PRE-FILTER CLEANING

## FAQ

### **WHAT ARE THE MAXIMUM DIMENSIONS OF THE ENVIRONMENTS IN WHICH THE USE OF VORTRONIC APPLIANCES IS 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 destination environments of VORTICE purifiers is indicated in their respective identification codes. For example, VORTRONIC 100 is recommended for use in environments with a maximum volume of 100 m<sup>3</sup>, roughly corresponding, for example, to a room with a ceiling 3 m high and a surface of 6.5 x 5 m.

More generally, **the small sized models (VORTRONIC 50) are ideal for bedrooms and studies, the medium sized ones (VORTRONIC 100) for living rooms, dining rooms and professional offices, the larger ones (VORTRONIC 200 T) for offices and meeting rooms.**

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

*Further information can be obtained by writing to the VORTICE Presale Service at the address: [prevendita@vortice-italy.com](mailto:prevendita@vortice-italy.com)*

### **WHAT IS THE IONIZATION FUNCTION USED IN VORTRONICS FOR?**

In addition to traditional filters, **the purifiers of the VORTRONIC range are equipped with a filtering system based on the negative ionization technology, which increases their effectiveness in reducing odors and the finest microparticulate, the most harmful to our health when inhaled.** The negative ions bind to the suspended particles (micro-dust, aromas, smoke, pollen and bacteria) and electrostatically charge them, causing their fall and thus improving the quality of the ambient air. In the VORTICE purifiers, the ionization process can be selected by the user by pressing a special button (the products can also work regardless of this function), which lights up indicating that ionization has been activated.

### **WHAT IS OZONE FOR?**

The effectiveness of ozone against spores, fungi, bacteria and viruses has long been known; for this reason, it is commonly used in the sterilization processes of surfaces and in the disinfection of foodstuffs, air flows and water. In Italy, the Ministry of Health, with protocol no. 24482 of July 1996, recognized ozone as a Natural Aid for the Sterilization of Environments.

Ozone (O<sub>3</sub>) is an oxidizing agent produced by the transformation, induced by high voltage electrical discharges, typical of lightning during a storm, of oxygen molecules.

**The ozone emissions of VORTICE purifiers are well below the limits mentioned below.**

If inhaled in high quantities, ozone can cause negative health effects, starting from irritation of the mucous membrane and migraines up to decreased lung capacity and lung diseases. To avoid these risks, the regulations indicate in 0.06 ppm (parts per million) the limit value, expressed by the abbreviation MAC (Maximum Allowed Concentration), of the ozone rate to which a human being can be exposed without danger for an extended period, set at 8 h/day for 5 days/week. This limit is halved to 0.03 ppm for exposures reduced to 15 minutes.

### **WHERE TO PLACE THE VORTRONIC APPLIANCES 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 where you spend most of your time.** The low weight of the small and medium sized models and the wheels of the VORTRONIC 200 T also facilitate their moving from one room to another.



# VORTRONIC RANGE

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## FAQ

### **WHICH CRITERION FOR USING THE VORTRONIC APPLIANCES ENSURES THE BEST PERFORMANCE?**

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 a purifier 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 and healthiness **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 keeping the air clean.**

### **CAN I ADJUST THE VORTRONIC APPLIANCES TO WORK ONLY AT CERTAIN TIMES OF THE DAY?**

The VORTRONIC 200 T model is equipped with a programming function that allows you to easily make the product switch on and off according to specific needs, for example from 9.00 to 18.00 in the case of an office.

### **WHAT IS THE AVERAGE LIFE OF THE FILTERS MOUNTED IN THE VORTRONIC RANGE?**

The life 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;
- the concentration of pollutants in the room.

That said, indicating an average duration (3 months? 6 months? 1 year?) of the filters - regardless of the evaluation of those three factors - is improper and misleading. **The VORTICE purifiers integrate a system for monitoring the status of the filters that indicates, by a red indicator light, the need to clean the filters (except for VORTRONIC 35 RF), so as to optimize their exploitation avoiding unjustified expenses and with the certainty of the correct and effective operation of the product.**

### **WHERE CAN I FIND VORTRONIC REPLACEMENT FILTERS?**

Filters, as well as all spare parts for VORTICE products, can be purchased from authorized VORTICE service centers. You can find the one closest to you or more easily accessible from a list that can be obtained:

- by downloading it from: [https://www.vortice.it/it/trova\\_centro\\_assistenza](https://www.vortice.it/it/trova_centro_assistenza);
- by calling toll-free: 800.555.777 ;
- by writing to the email address: [postvendita@vortice-italy.com](mailto:postvendita@vortice-italy.com).

### **HOW LONG WILL THE FILTERS OF THE VORTICE PURIFIERS BE AVAILABLE ON THE MARKET?**

VORTICE, an Italian company founded in 1954, national leader in the air ventilation and treatment market, produces air purifiers since the 70s. The current products of the VORTRONIC range take advantage of the experience gained in over 40 years of presence on the market to ensure effective and long-lasting operation over time. **Like for all our products, the availability of spare parts, as well as consumables, is guaranteed for 10 years from the end of sales - an event that is not currently scheduled, in light of the positive feedback that our purifiers gather from their users.**

## FAQ

### **ARE THE VORTRONIC APPLIANCES QUIET?**

To be effective, a purifier must:

- be equipped with filters capable of effectively retaining pollutants;
- be designed and constructed so as to ensure that all the treated air is 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.

VORTICE purifiers are equipped with adjustable speed fans, 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, both during the day and at night.

### **DO THE VORTRONIC APPLIANCES NEED MAINTENANCE?**

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



Do you need assistance on this product?

**Contact our customer service**

Italy: [prevendita@vortice-italy.com](mailto:prevendita@vortice-italy.com) - Abroad: [export@vortice-italy.com](mailto:export@vortice-italy.com)

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