

**vittinox**

# COLLY

PORTABLE AIR PURIFIER



Design A.Perencin

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*"Hellenic tradition has it that air, together with water, land and fire, is one of the four natural elements that represent the realms of the cosmos in which all things exist and consist. It is essential to the life of most animal organisms, particularly that of humans".*

- \* **Ambient air filter efficiency 99.935%**
- \* **Four stage filter system does not use chemicals or release harmful radiations**
- \* **Constantly monitored air quality and data reading on the machine display**



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The air we breathe in closed environments such as houses, schools, offices, studios and waiting rooms is full of bacteria, mould, viruses and other contaminants that considerably affect our health.

Thanks to technology used for COLLY, a FOUR STAGE FILTER portable air purifier developed by Vittinox, you can breathe air 99.935% purified.

Suitable for places with little or no ventilation, it can be used in your presence as it does not use chemicals or release harmful optical radiation.

COLLY has passed the strict efficiency and functional tests carried out by the laboratories of K-inntech Kinetics Innovation, a spin-off of the Industrial Engineering Department of Padua University.



## FOUR STAGE FILTER SYSTEM:

### STAGE 1

Air passes through two aluminium filters that retain dust, animal hairs and all the macro particles in the room.

### STAGE 2

Air passes through two active carbon filters that eliminate the odours in the room.

### STAGE 3

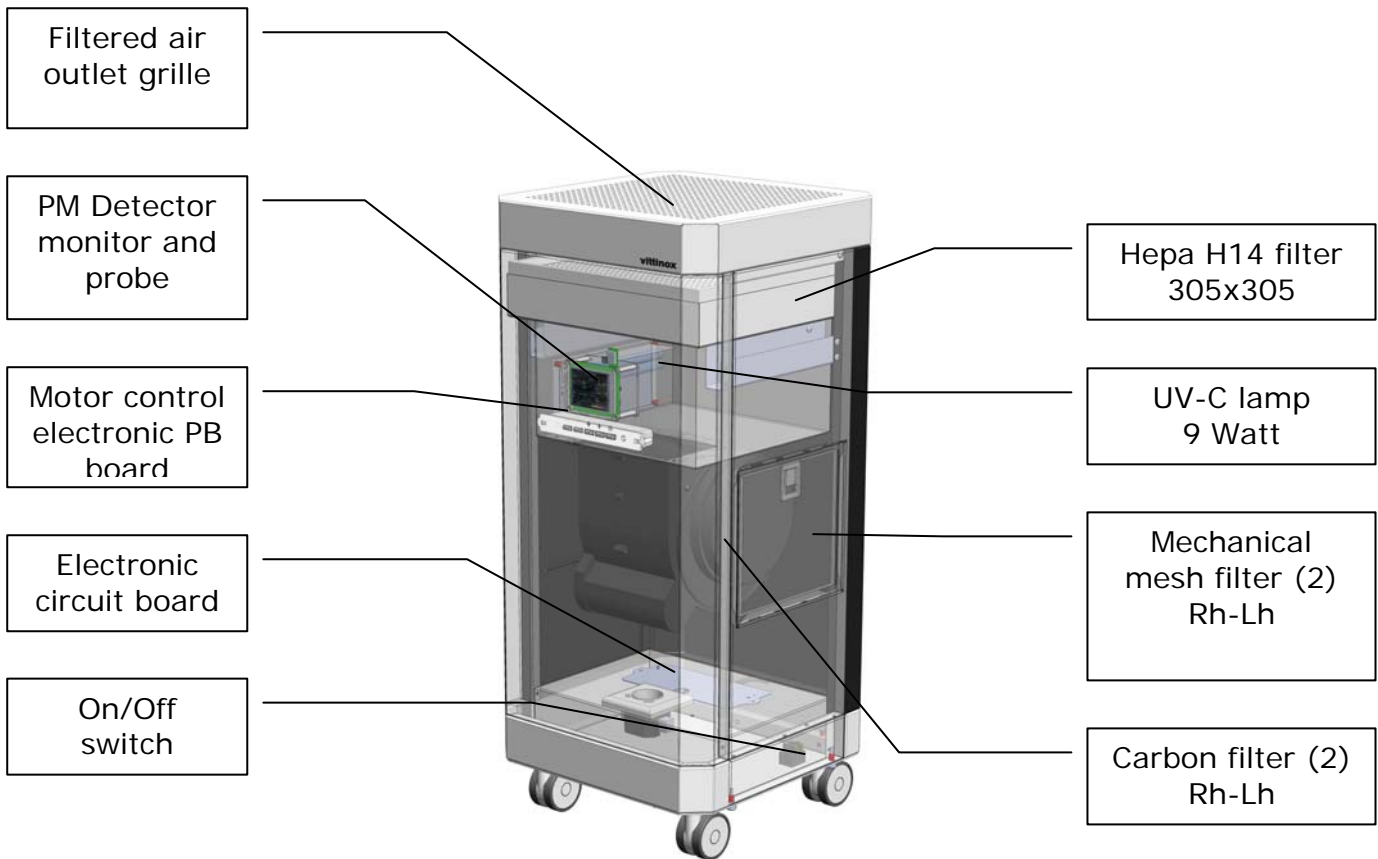
Air passes through a chamber irradiated by ultraviolet light from a UV-C lamp.

### STAGE 4

Air passes through a class H14 HEPA absolute filter 305x305x68/78 mm.



## TECHNICAL CHARACTERISTICS



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<b>TECHNICAL CHARACTERISTICS</b>			
	<b>L</b>	<b>P</b>	<b>h</b>
Dimensions (mm)	350	350	800
Class H14 99.995% Hepa filter H14 99.995% Complies with VDI 6022 Microbiologically inert components to ISO 846 Suitable for contact with food, as per EC 1935:2004 No bisphenol-A, phtalates or formaldehyde	305	305	68/78
Weight (Kg)	28		
	<b>V1</b>	<b>V2</b>	<b>V3</b>
Motor speed	49	58	65
Noise rating dB (A) re1pW-I.E.C.60704-2-13	220	320	480
Output (m <sup>3</sup> /h)	270	400	500
Maximum pressure (Pa)	100	130	180
Motor power (W)	<b>3</b>	<b>5</b>	<b>7</b>
Number of air exchanges per hour in a 20 m <sup>2</sup> (60 m <sup>3</sup> ) room	Duration of UVC Germicide G23 lamp		
	9.000 h		
	Motor (m <sup>3</sup> /h)		
	600		
<b>Test report 2020_C040 K-INNTECH S.R.L. – Padua University spin-off</b>			
Ambient air filtration efficiency (%)	<b>99.935</b>		
Water aerosol filtration efficiency (%)	<b>99.5</b>		
Combustion fumes filtration efficiency (%)	<b>84</b>		
Test to check for ozone emissions carried out with a sensor designed to detect both Ozone (O3) and nitrogen dioxide (NO2).	<b>No emissions detected</b>		

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## TEAM



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