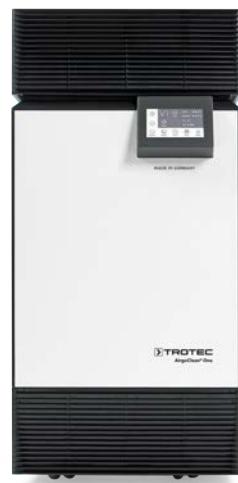




# H14 HIGH-PERFORMANCE AIR PURIFIER AIRGOCLEAN® ONE

Our No. 1 virus air cleaner for business interiors  
with a residential character, medical practices  
and law firms or exclusive private rooms.



## GET FRESH AIR

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INDUSTRY SOLUTIONS

# H14 HIGH-PERFORMANCE AIR PURIFIER AIRGOCLEAN® ONE

## AirgoClean® – Powerful brand. Clear message. Clean air.

The name says it all: AirgoClean® is Trotec's brand name for comfort air purification in private settings. The AirgoClean® One is our clear number 1 and first recommendation for virus filtration and permanent air pollution control in conference rooms, waiting rooms, medical and veterinary practices, law firms or high-class private environments.



### Many things can be done better. But not the AirgoClean® One.

We have to admit that quite a few air cleaners leave a good impression at first sight. But in the long run, many of them are in danger of literally running out of breath sooner or later. Permanent operation, uninterrupted air purification around the clock, non-stop virus filtration – this wears out the material, you have to be made for it. Just like Trotec's AirgoClean® One.

It is no coincidence that with the AirgoClean® One you benefit from an equally durable and user-friendly construction with effective 360° air routing and long filter lifetimes – after all, it is a high-performance air purifier originally produced by Trotec, developed and manufactured in Germany according to the highest quality standards, which houses only efficient branded components of the latest generation of technology supplied by leading component manufacturers. Each quality filter integrated is produced in Germany, tested and certified individually. The effectiveness of the H14 HEPA filter system of this high-performance air purifier has been scientifically proven!

### AirgoClean® One – if premium is your standard

The AirgoClean® One is your guarantor for that reassuring "coming home feeling" when entering your own four walls, your office, law firm or medical practice. Enter. Close the door, take a breath, safety. Air pollutants, germs and fine dust stay outside, all that remains inside is clean filtered breathing air. Protect yourself and your environment with HEPA-filtered clean air that is 99.995 % free from dangerous air pollutants.

### The AirgoClean® One removes 99.995 % of all airborne pollutants down to a size of 0.1 micrometres from the room air:

- BACTERIA AND VIRUSES
- VOLATILE ORGANIC COMPOUNDS (VOC)
- DUST MITES
- HOUSE DUST
- MOULD SPORES
- ANIMAL DANDER
- FINE DUST
- POLLEN (FARINA)
- ANIMAL ODOURS

## H14 HIGH-PERFORMANCE AIR PURIFIER AIRGOCLEAN® ONE

### Clean air engineering "made in Germany" – 100 % safe and sound technology, 100 % Trotec

The impressive clean air performance of the AirgoClean® One is achieved exclusively through well-established mechanical filter technology – without generating dangerous ions, ozone or UV radiation. This type of air filtration is the safest, healthiest and most effective technique for cleaning the air. The mechanical filters of the AirgoClean® One remove even the tiniest particles from the air by retaining them securely in the filter material. The effectiveness of the AirgoClean® One with its H14 HEPA filter system has been scientifically proven!



#### Combination prefilter

The first filter stage of the AirgoClean® One is a synthetic prefilter mat, which is embedded in an F7 prefilter (ISO ePM10 85 %) – the second filter stage – and effectively retains coarse and fine dust in combination with a large dust storage capacity.



#### Silencer

Installed as standard in filter compartment 3 is a powerful silencer for efficient noise reduction of the air cleaner ensuring pleasantly quiet operation. The silencer has been elaborately flow-optimized, so that it is volume flow-neutral and generates practically no flow resistance.



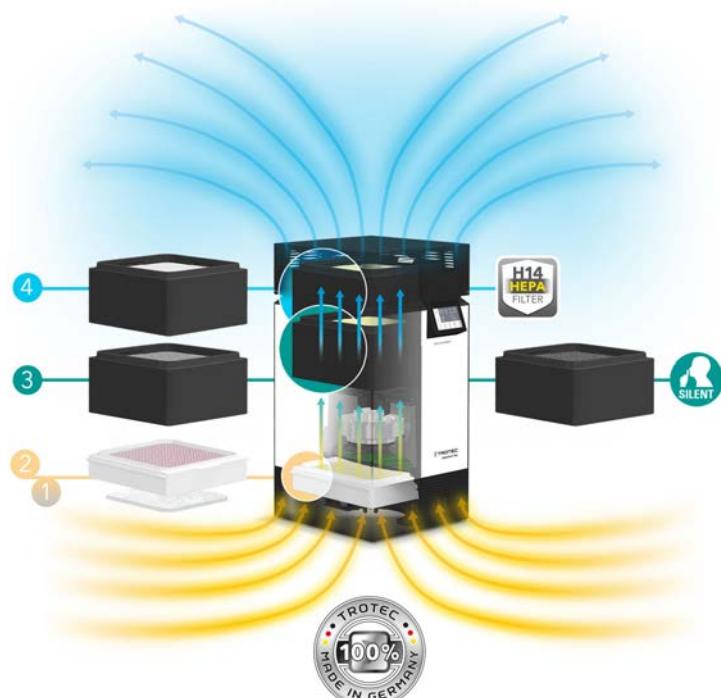
#### Activated carbon filter

An optional activated carbon filter is available as filter stage 3, which effectively neutralises in particular tobacco odours, pet odours, kitchen odours, smoke odours as well as formaldehyde and solvent odours from the ambient air. If required, the activated carbon filter can be installed in filter compartment 3 instead of the silencer.



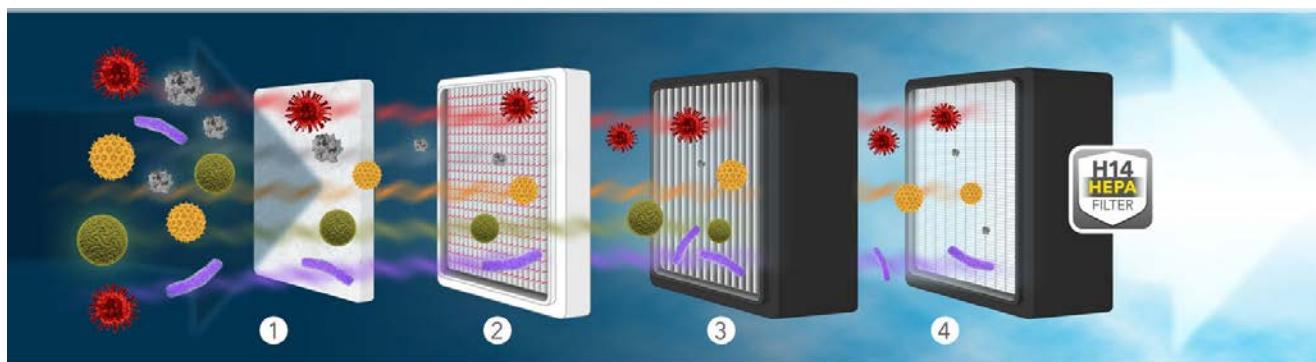
#### H14 HEPA filter complying with EN 1822

The scope of delivery of the AirgoClean® One includes a HEPA filter of class H14 serving as the fourth filter stage. This filter of German high-quality manufacturing is characterised by a particle separation efficiency  $\geq 99.995$  for particle sizes of  $0.1 - 0.3 \mu\text{m}$  with a transmittance  $\leq 0.005\%$ . A class H13 HEPA filter is also optionally available



Filter elements included in the standard scope of delivery of the AirgoClean® One: Combination prefilter consisting of a synthetic prefilter mat and F7 prefilter (ISO ePM10 85 %), silencer and H14 HEPA filter (EN 1822).

H14 HIGH-PERFORMANCE  
AIR PURIFIER  
AIRGOCLEAN® ONE



**AirgoClean® One with multi-stage HEPA filter system certified according to EN 1822**

**STAGE 1  
COARSE DUST FILTRATION**

As the first filter stage of the AirgoClean® One, a synthetic prefilter mat with a high dust storage capacity retains coarse house dust, textile fibres and animal hair from the room air.

**STAGE 2  
HEPA PRE-FILTRATION**

The fine particulate air filter of class F7 (ISO ePM10 85 %) serves as a prefilter of the H14 HEPA filter and separates e.g. pollen and finer particles  $\leq 10 \mu\text{m}$  with a minimum separation efficiency of 85 %.

**STAGE 3  
ACTIVATED CARBON  
FILTRATION**

The optional filter effectively neutralises odours from various sources from the ambient air, for instance tobacco, pet, smoke, kitchen as well as formaldehyde and solvent odours.

**STAGE 4  
HEPA FILTRATION**

As the first filter stage of the AirgoClean® One, a synthetic prefilter mat with a high dust storage capacity retains coarse house dust, textile fibres and animal hair from the room air.

**Application-specific room size suitability of the AirgoClean® One**

Virus filtration SARS-CoV-2		H13	H14
6 air changes suitable for rooms sized up to	Maximum	45 m <sup>2</sup> / 112 m <sup>3</sup>	40 m <sup>2</sup> / 100 m <sup>3</sup>
	Recommendation by Trotec*	28 m <sup>2</sup> / 70 m <sup>3</sup>	23 m <sup>2</sup> / 58 m <sup>3</sup>
10 air changes suitable for rooms sized up to	Maximum	27 m <sup>2</sup> / 67 m <sup>3</sup>	24 m <sup>2</sup> / 60 m <sup>3</sup>
	Recommendation by Trotec*	17 m <sup>2</sup> / 43 m <sup>3</sup>	14 m <sup>2</sup> / 35 m <sup>3</sup>
Suspended matter/fine particle filtration		H13	H14
Fine dust, pollen, animal hair, suitable for rooms sized up to	Maximum	78 m <sup>2</sup> / 195 m <sup>3</sup>	
	Recommendation by Trotec*	50 m <sup>2</sup> / 125 m <sup>3</sup>	

**Automatic mode and virus filtration:**

Do not use the automatic mode if the device is used for virus filtration. The integrated sensors only respond to air pollution caused by fine particulates, pollen or VOC. The device cannot determine the virus load. It is possible that the automatic mode indicates a "good" air quality even though the virus load in the room is very high. For this reason we recommend using the fan stage requested by the respective specifications with regard to the circulation rate (air volume) when the device is used for virus filtration in order to reduce the risk of indirect infections.

\* Usually, the maximum value is advertised as the "recommended room size". In order to achieve a good combination of air pollution control and background noise, the room sizes we recommend are based on a sound level of approx. 46 dB(A).

## H14 HIGH-PERFORMANCE AIR PURIFIER AIRGOCLEAN® ONE

### "Touch & play" via touch display – high-class comfort functions

If you are fond of complicated switch sequences or adjusting numerous controls, then the AirgoClean® One will probably disappoint you. Everyone else will be thrilled by the comfort equipment of the AirgoClean® One, because all parameters can be conveniently set via the touch display of this H14 high-performance air purifier. And there are plenty of configuration options and service information the AirgoClean® One has to offer:



#### Air quality indication (VOC and particulate matter PM2.5) with automatic mode

The air purification capacity cannot only be controlled manually in 6 levels. In addition, the AirgoClean® One is equipped with a comfortable automatic mode. Highly sensitive sensors determine the particle load in the room air and the concentration of volatile organic compounds (VOC). The values are shown on the touch display in real time and at the same time regulate the air and filter performance of the device fully automatically to remove suspended particles from the room air in next to no time.

#### Turbo mode

The turbo mode is used especially for accelerated ventilation of the room, where, for example in acute situations, particularly fast and effective cleaning of the indoor air is required. In this mode, the air is quickly cleaned to an optimum level at the highest fan stage. This is a fast and simple way of cleaning the air in meeting, break and staff rooms to achieve a good quality level. Allergy sufferers who open the window to ventilate the room are able to have the air filtered from intruding pollen or dust within minutes. When the AirgoClean® One is set to turbo mode, airborne pollutants and suspended particles are removed from the room air with maximum air cleaning performance at the highest fan speed so that the room air is cleaned to an optimum level.

#### Night mode with reduced blower level and low background noise

With its low noise emission, the night mode enables clean, filtered room air even during sleep. The air current is adjusted to your sleeping requirements fully automatically and the air flow rate is set to the lowest blower level.

#### Room climate indication

Additional sensors installed in the AirgoClean® One also record the current room air temperature as well as the relative humidity and show these room climate values on the display.

#### Timer function with weekly schedule

While conventional timers are usually limited to selecting the time of switch-on and switch-off, the AirgoClean® One comes equipped with a top-class operation planner. The respective switch-on and switch-off times can be specified as desired for the individual weekdays or for all days at once.

#### Intelligent filter lifetime monitor

The condition of the filters is monitored and displayed for all three filter compartments. The condition monitoring does not simply work hypothetically, based on time for instance, but it records the actual filter status and provides precise information about a necessary filter change.

#### Air quality indication with 14-day history

This unique function indicates the air pollution level of the past 24 hours up to 2 weeks in the form of a graph based on the data logger principle. Broken down by VOC and particle load as bar charts and the air quality in total as a line chart.

#### Tamper-proof screen lock with PIN protection

PIN protection is used to prevent unauthorized use of the AirgoClean® One.

## What's the point of air purification? All you need to do is ventilate properly, right?

Airing seems to be the order of the day in Corona times. This recommendation is continuously propagated by various parties and presented as the most effective measure to reduce the risk of airborne infection indoors. In fact, ventilation can reduce the concentration of virus-laden aerosols in the room air. However, only if all conditions are met, which is often not the case.

### Air cleaners offer more effective protection against the coronavirus than open windows

In view of the cold winter and outside temperatures in the minus range, the question arises how practical and effective window ventilation, which is recommended by the Federal Environment Agency (UBA) and the Conference of Ministers of Education and Cultural Affairs, is as an infection control measure. Contrary to the opinion of the UBA and the Ministers of Education that regular shock ventilation is sufficient and that there is currently no better technical solution to remove potentially infectious aerosols from classrooms, for example, many scientists and internationally renowned aerosol experts recommend the use of high-performance air purifiers with HEPA filter technology complying with EN 1822 – as a more effective alternative to window ventilation.

### **Stylish. Powerful. Clean air at its best.**

#### **Our number 1 H14 high-performance air purifier for virus-filtered clean air in exclusive environments**

No matter in what place – always in first place of the best Trotec high-performance air purifiers for clean room air in first-class environments with a private touch: with its discreet elegance, the AirgoClean® One blends pleasantly unobtrusively into any atmosphere and impresses with both a classic appearance and exemplary inner values. Whether for a conference room, medical practice, waiting room, law firm, private collections and libraries or exclusive private rooms – the AirgoClean® One not only leaves an excellent impression in any environment, but of course also produces the best virus-filtered room air – free from pollutants such as fine dust, volatile organic compounds (VOC), airborne germs and odours.

**Set up, switch on, breathe freely.**



## Fine dust – an invisible danger for the lung, heart and vessels, more dangerous and more widespread than previously assumed.

Fine dust is on everyone's lips and that in the truest sense of the word. The German National Academy of Sciences Leopoldina demands additional efforts from environmental and health policy makers to further reduce the air pollution with particulate matter. They say that the sources of particulate matter are more diverse and the resulting damage to health more serious than previously assumed.

### **Fine dust favours the development of serious diseases**

Fine dust particles, also known as particulate matter, are respirable particles with a diameter of less than 2.5 µm. The smaller these fine particles are, the deeper they can penetrate the body and organ systems. Particulate matter can cause inflammation in the bronchi and lungs, and slow down children's lung growth. According to the Leopoldina, other consequences of particulate matter include heart attacks, strokes and accelerated arteriosclerosis. Inflammatory processes have also been observed in the brain and have been linked to a faster development of dementia in older people as well as delayed intelligence development in children. In addition to inflammatory reactions, fine dust can also cause damage to the cardiovascular system in other ways.

### **Particulate matter is responsible for 15% of global corona deaths**

Researchers have long suspected that the pollution with particulate matter has an influence on the course of disease in COVID-19 patients, since particulate matter weakens the immune system and attacks the lung tissue. This is now confirmed by new research results from the renowned University of Oxford, published in the medical journal "Cardiovascular Research." The results show that there is a correlation between high pollution with particulate matter and an increased risk of dying from COVID-19. The scientists have calculated that on average 15 percent of global corona deaths are due to victims having inhaled polluted air over a long period of time. The research results suggest that particulate matter pollution is an important factor increasing the mortality risk from COVID-19..

## Clean air is essential to life.

However, even the so-called "fresh air" outside can damage our health and enter our lives through doors and windows. It is scientifically proven that air cleaners of the AirgoClean® series reliably remove these and other harmful suspended particles from the air in the room and breathing air, thus ensuring a healthy environment at work or at home.

**AirgoClean® Your health is worth it!**





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