

SOMETIMES YOU NEED TO
GO **WAY BACK** TO BE **MODERN**

AIR PURIFIERS CITY M & CITY S



Allergy-friendly
Quality Tested



ECARF

www.ecarf-label.org
European Centre for Allergy Research Foundation

 **camfil**

OUR AIR PURIFIERS WILL TAKE YOU THOUSANDS OF YEARS BACK IN TIME.

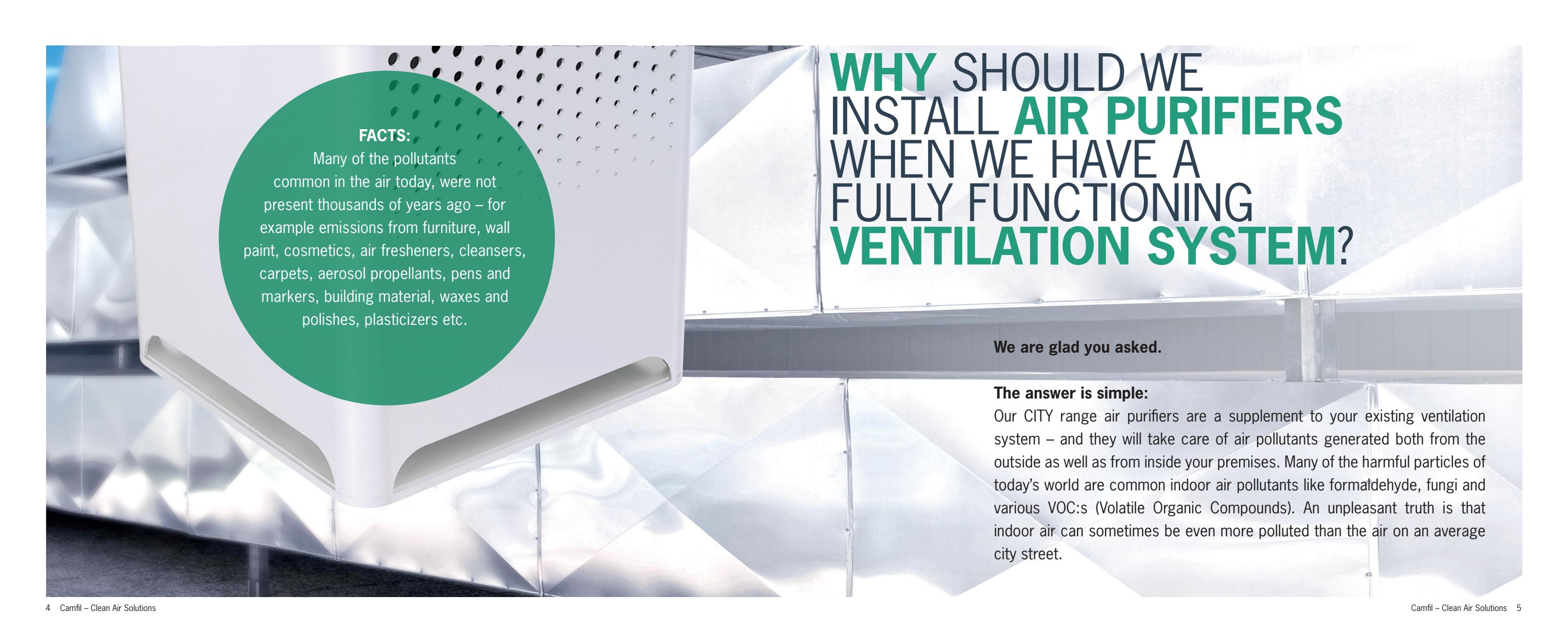
FACTS:

In a matter of hours (depending on the size of the room), a CITY air purifier with three-stage filtration will reduce the number of particles in the air by literally millions per cubic metre.

The HEPA filter used is so efficient that air would have to pass through an average ventilation system three times to achieve the same level of purification.

Imagine if your office air was as clean as the air many thousands of years ago. Free of today's bacteria, viruses and harmful particles. Luckily, you can do more than just imagine this.

With Camfil's CITY range air purifiers – especially designed for offices, schools, hospitals, public buildings etc – you can experience that good old clean air in no time.



FACTS:

Many of the pollutants common in the air today, were not present thousands of years ago – for example emissions from furniture, wall paint, cosmetics, air fresheners, cleansers, carpets, aerosol propellants, pens and markers, building material, waxes and polishes, plasticizers etc.

WHY SHOULD WE INSTALL AIR PURIFIERS WHEN WE HAVE A FULLY FUNCTIONING VENTILATION SYSTEM?

We are glad you asked.

The answer is simple:

Our CITY range air purifiers are a supplement to your existing ventilation system – and they will take care of air pollutants generated both from the outside as well as from inside your premises. Many of the harmful particles of today's world are common indoor air pollutants like formaldehyde, fungi and various VOC:s (Volatile Organic Compounds). An unpleasant truth is that indoor air can sometimes be even more polluted than the air on an average city street.

SO WHAT BENEFITS DO WE GET FROM INVESTING IN CITY AIR PURIFIERS?

FACTS:

We humans breathe on average 15 kilos of air every day, including the dust particles that come with the air. Our air purifiers will let your employees inhale a lot less unhealthy dust and bring you a more productive indoor environment.

FACTS:

Apart from a healthier work environment, our air purifiers will decrease your need for cleaning, since they remove a large portion of the dust which is generated daily.

When you let our air purifiers take care of harmful particles, odours and in some cases gases, the improved air quality will provide a much healthier work environment. We are all sensitive to these particles, some of us more than others, so the benefits may vary from fewer sick leave days to increased well-being at work.

Your employees will have more energy to be productive when you reduce common “bad air” symptoms like headache, coughing, allergic reaction, respiratory problems, eye irritation, nausea, and skin rashes etc.

CITY air purifier is a an allergy-friendly product suitable for people with allergies and intolerances. It has been awarded ECARF (European Centre for Allergy Research Foundation) certification for its ability to significantly reduce the level of pollen, bacteria and mold spores in the air.



FACTS:

The larger the surface of an air filter, the more particles it can hold. It also means that the ability to let air through, without the filter getting clogged up, will be maintained for a longer period of time – and less energy will be consumed.

FACTS:

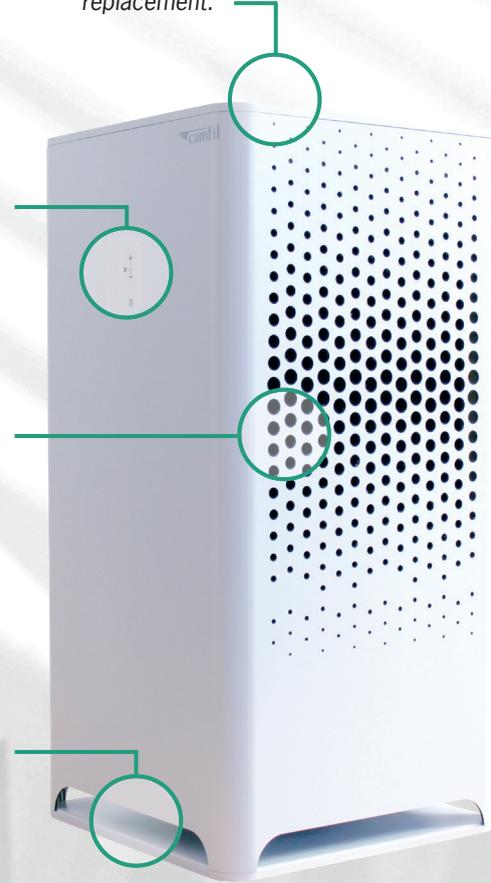
By choosing CITY range air purifier, you get a filter package that will deliver consistent performance and a high level of efficiency throughout its lifetime. It will also be more sustainable and greener than most other solutions.

Removable top for easy filter replacement.

Display. For setting the desired airflow. Here you can also see when it is time to replace the filters.

The polluted air passes through this pattern of holes on both sides and continues inside to be purified.

Clean air – free of particles and harmful pollutants, gases or odours – is dispersed in all directions, 360°.



ARE THERE REALLY **14 TIMES** AS MANY **REASONS** TO **CHOOSE** AN AIR PURIFIER FROM **CAMFIL**?

Yes.

You may not be able to see what separates a CITY air purifier from other air purifiers with the naked eye. But since we are the world leader in clean air solutions with more than 50 years experience, you can be sure that the filter-package inside is the best one available.

For example, a comparison with another brand's product showed that our filter-package is 14 times heavier than theirs. This means that we offer a much higher capacity to retain dust and particles without compromising on the ability to let the air pass through the filter. You could say it is like comparing the load handling capability of a normal size car to a full size truck.



HOW IT WORKS.

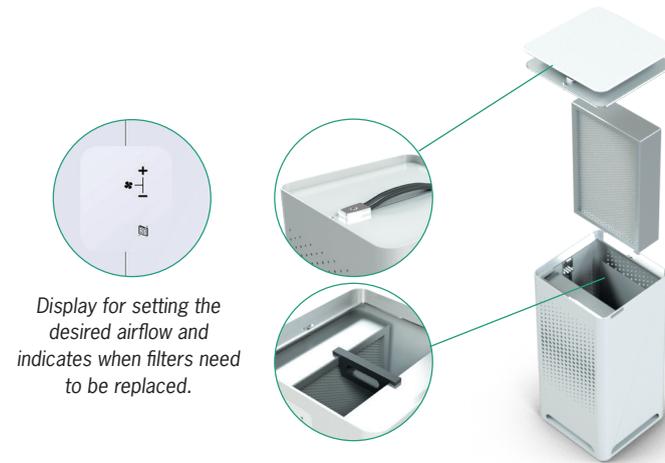
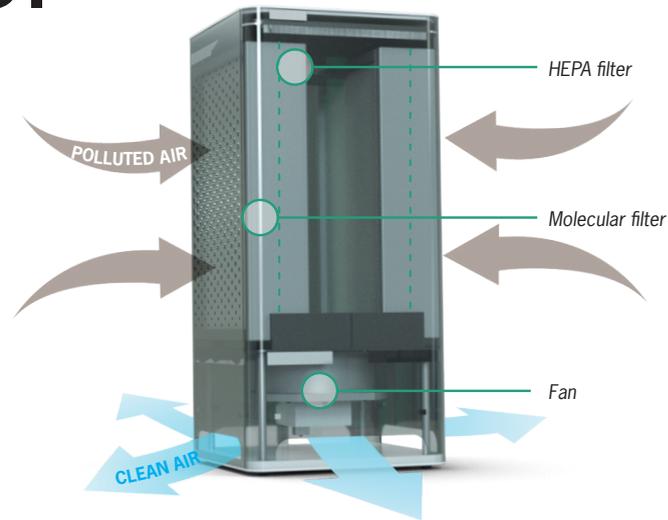
CLEAN AIR IN ALL DIRECTIONS

The polluted air passes through the pattern of holes on both sides and continues inside to be purified.

CITY air purifier is equipped with a highly efficient H14 HEPA filter. It removes 99.995 % of all particles. The molecular filter efficiently eliminates odours and gases. Clean air – free of particles and harmful pollutants, gases or odours – is dispersed in all directions, 360°.

QUICK AND SIMPLE FILTER CHANGES TO CHANGE THE FILTERS ONLY TAKES A MINUTE.

- Remove the top lid and the lid underneath.
- Take out the used filters and replace them with new ones.
- And put the lids back in place.
- Also, remember to turn the machine off during this procedure.



DESIGNED FOR INDOOR ENVIRONMENTS.

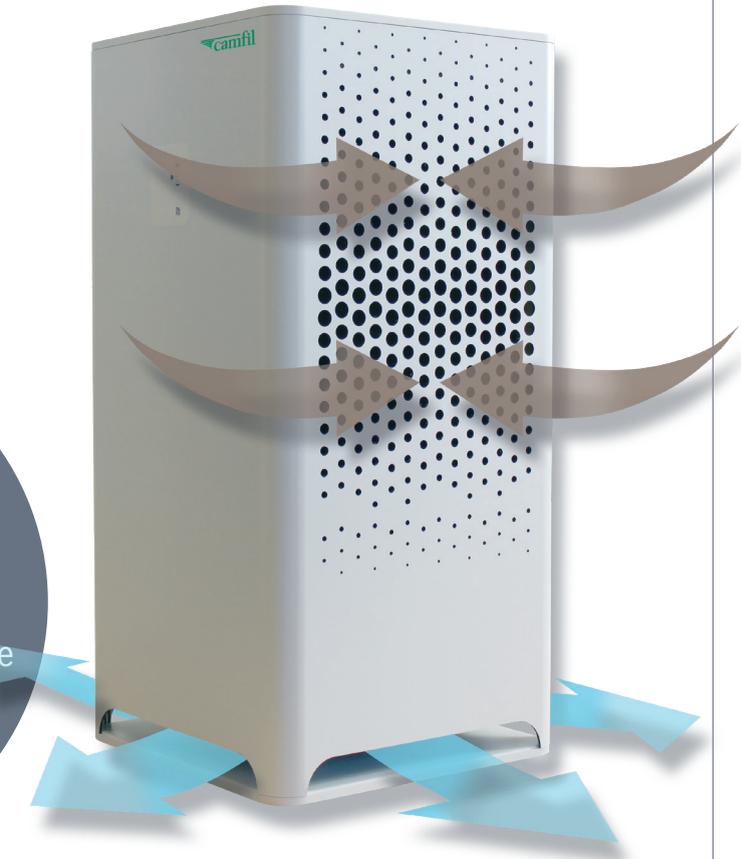
Properly designed HVAC systems don't guarantee purified indoor air where clean air is critical. Camfil's City M air purifier is a supplement to your existing ventilation system, providing clean air, free of harmful contaminants and pollutants generated both inside as well as from outdoors.

It's an unpleasant truth that indoor air can sometimes be even more polluted than the air on an average city street. Many of the harmful particles produced indoors are common pollutants like fungi and various volatile organic compounds (VOC).

The City M and City S removes all of these and more.

FACTS:

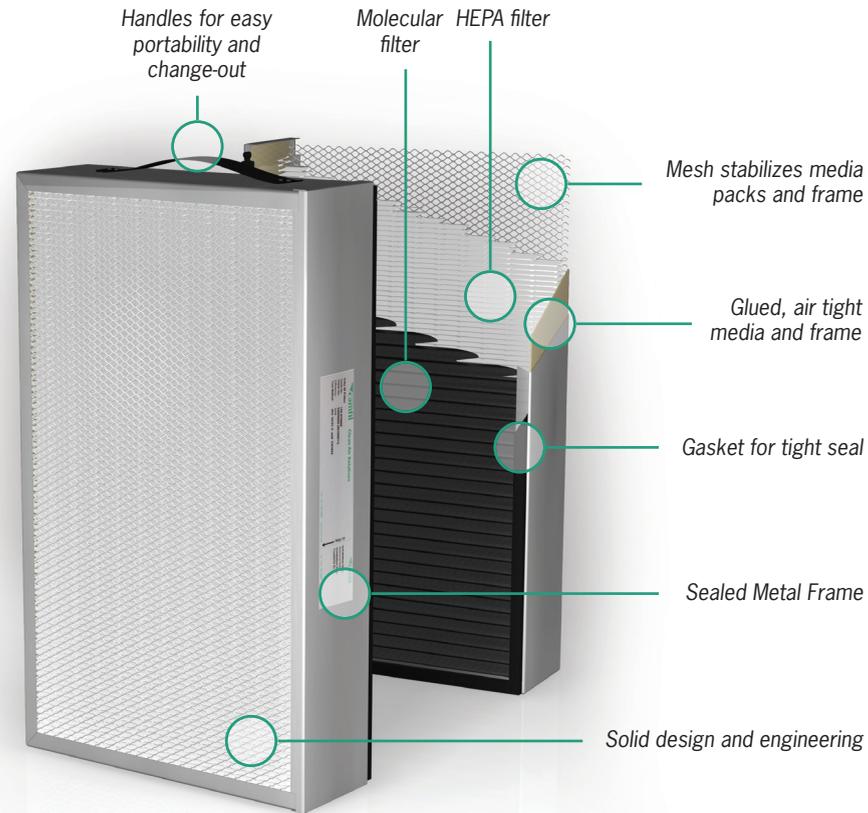
The HEPA filters used in the City M are so efficient that air would have to pass through an average ventilation system three times to achieve the same level of purification.



IT'S WHAT IS IN THE BOX THAT MATTERS.

CAMFIL CITY M FILTERS THE HEART OF PERFORMANCE IS THE CAMFIL FILTRATION TECHNOLOGY.

- Equipped with two large, highly efficient filters that remove particles, odors and gases.
- **40-50% more** filter media than other purifiers on the market.
- **1 ½-2 times** the filter life for operational cost savings.
- **50% less** energy consumption than competitors' units.



The City M Air Purifier includes two filter-packages with each package containing a HEPA and a molecular filter.

IT'S WHAT YOU CAN'T SEE THAT CAN HURT YOU!

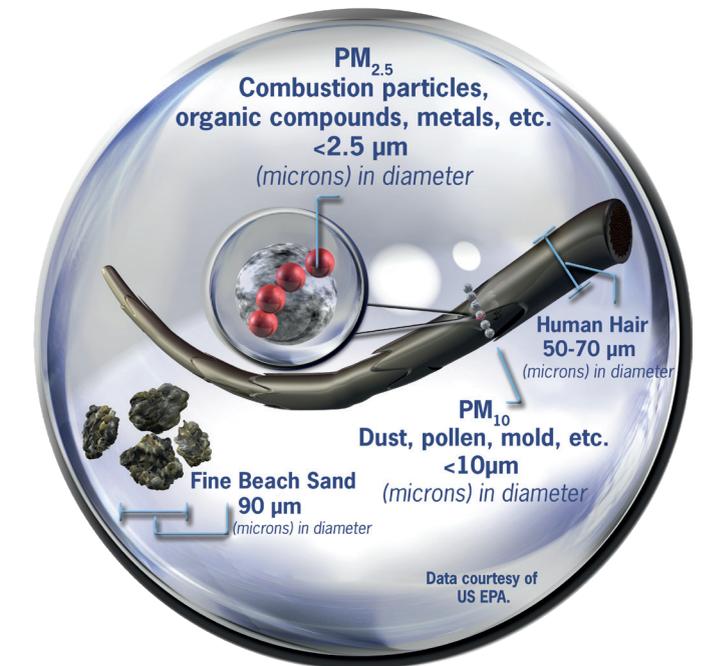
Dust particles dancing on beams of light streaming through a window may look beautifully surreal, but the reality is that those same dust particles, as well as most that are too small to be seen with the naked eye, pose alarming risks to people, animals, equipment, commerce and industries.

These particles contain a mixture of both solid and liquid organic and inorganic substances consisting of sulfates, nitrates, ammonia, sodium chloride, black carbon, mineral dust, allergens, and more. The most damaging particles are those less than 1 micron in size.

Inhaled contaminated particles can get deep into your lungs, and even get into your bloodstream—affecting your lungs and your heart. Studies have shown that when particle levels are high, older adults are more likely to be hospitalized, while others may die of aggravated heart or lung disease. Children are also at risk. Their young lungs are still developing and are more likely to have asthma or acute respiratory diseases aggravated when particle levels are high.

Over time, exposure to particles can lead to a variety of diseases such as acute bronchitis, increased asthma attacks, cancers, heart attacks and arrhythmias. Studies suggest that particles may also be associated with low birth weight in infants, pre-term deliveries, and possibly fetal and infant deaths.

CLEAN THE AIR OF POLLEN, FUNGI, BACTERIA, VIRUSES, OZONE, CHEMICALS AND OTHER HARMFUL POLLUTANTS.



SIZE OF A MICRON
Particles smaller than 10 microns in size cannot be seen by the naked eye. The most damaging particles are those less than 1 micron in diameter.

WHY HEPA FILTRATION?

HEPA filters are part of the category of so-called “absolute filters”, the term is justified by the fact that filters have a high filtering efficiency. The City M air purifier is equipped with two HEPA H14 filters. HEPA H14 filters have an efficiency of 99.995% calculated on the size of MPPS.

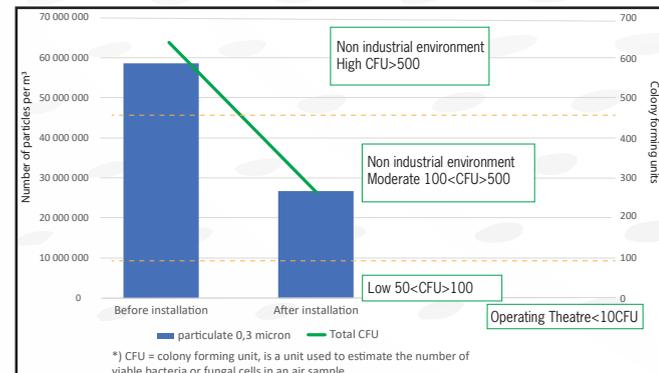
At Camfil, each filter is tested according to EN1822 to certify the filter efficiency before they are shipped.

WHAT IS MPPS AND ITS LINK TO VIRUSES?

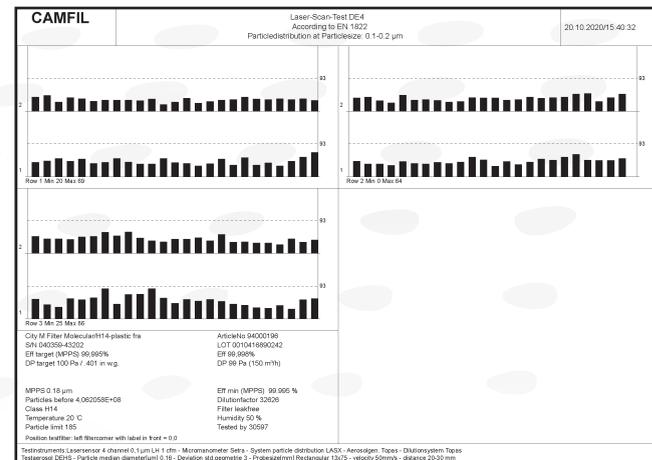
The efficiency of HEPA filters is measured in MPPS (most penetrating particle size), which is the particle size that is most likely to navigate its way through a filter that represents the lowest efficiency of the filter. MPPS is generally between 0.1 and 0.25 microns. This means that a filter in class H14 allows for a passage of 0.005% of the particles of 0.1 microns.

For smaller or larger particles, the performance of that filter is even better. HEPA filters are also used in operating rooms, analysis labs, high containment laboratories (BSL3/BSL4) and in pharmaceutical industries.

Room (20m²) - Airborne purification impact with air purifier treatment.



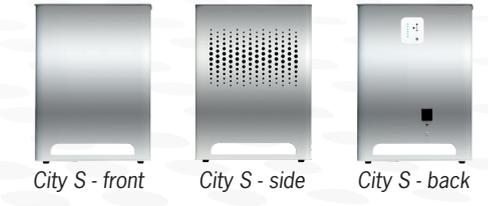
Particle and microbiological graph improvement by air cleaner with 3 air changes per hour (ACH).



TECHNICAL INFORMATION.

EXTERNAL DIMENSIONS, VERTICAL MODEL

	City S	City M
Height (mm)	465	720
Width (mm)	340	340
Depth (mm)	345	345
Weight (kg)	11.0 (including new filters)	15.0 (including new filters)
Filter weight (kg)	1.0 kg (2 filters are needed)	2.0 kg (2 filters are needed)



FAN SPECIFICATIONS

Phase		1~
Nominal voltage	VAC	230
Nominal voltage range	VAC	200 .. 240
Frequency	Hz	50/60
Type of data definition		ml
Speed	min ⁻¹	3200
Power input	W	83
Current draw	A	0.75
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+60



AIR FLOW

Step	City S				City M			
	Qv [m³/h]	N [rpm]	Pe [W]	LpA* [dBA]	Qv [m³/h]	N [rpm]	Pe [W]	LpA* [dBA]
1	21	561	5	21	37	520	4	16
2	47	865	6	28	67	728	5	21
3	82	1168	9	36	94	907	6	28
4	119	1428	12	40	127	1072	7	35
5	183	1866	22	45	251	1772	19	45
6 Max.	247	2267	36	52	433	2733	55	54

*tolerance +/- 10%

Camfil – a global leader in air filters and clean air solutions

For more than half a century, Camfil has been helping people breathe cleaner air. As a leading manufacturer of premium clean air solutions, we provide commercial and industrial systems for air filtration and air pollution control that improve worker and equipment productivity, minimize energy use, and benefit human health and the environment.

We firmly believe that the best solutions for our customers are the best solutions for our planet, too. That's why every step of the way – from design to delivery and across the product life cycle – we consider the impact of what we do on people and on the world around us. Through a fresh approach to problem-solving, innovative design, precise process control and a strong customer focus we aim to conserve more, use less and find better ways – so we can all breathe easier.

The Camfil Group is headquartered in Stockholm, Sweden, and has 33 manufacturing sites, six R&D centres, local sales offices in 30 countries, and 4,800 employees and growing. We proudly serve and support customers in a wide variety of industries and in communities across the world. To discover how Camfil can help you to protect people, processes and the environment.



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