

## City M Air Purifier. It's Simply the Best!

Captures the smallest, most  
harmful contaminants...  
even those you can't see.



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

Clean the air of pollen, fungi, bacteria, viruses, ozone, chemicals and other harmful pollutants.

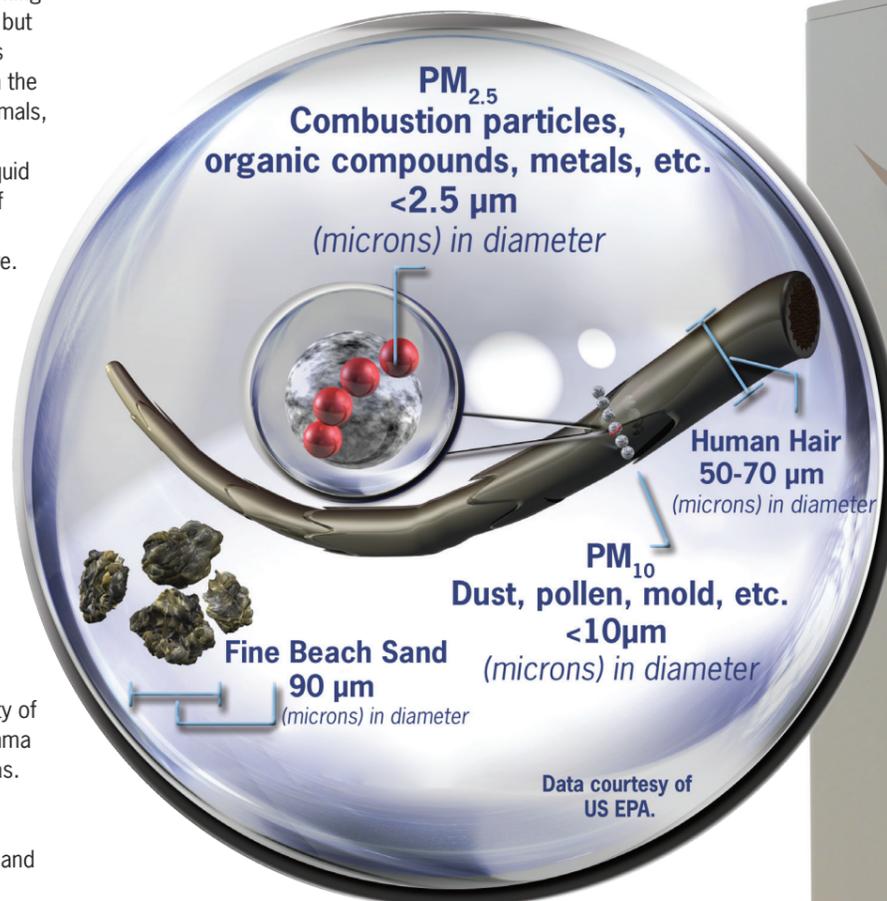
Dust particles dancing on beams of light streaming through a window may look beautifully surreal, but the reality is that those same dust particles, as well as most that are too small to be seen with the naked eye, pose alarming risks to people, animals, equipment, commerce and industries. These particles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

## FACT

Humans breathe on average 15 kg of air every day, including the dust particles that come with the air. Camfil's air purifiers reduce unhealthy dust inhalation and provide a cleaner, more productive indoor environment.

## 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.

# CAMFIL CITY M AIR PURIFIER

The filters in the City M Air Purifier are proven to remove 99.995% of all particles with scanned certificate for each filters.

Part of the Camfil Air Purifier/Air Cleaner family of products, the City M is an indoor air quality device that works like no other, combining the highest efficiency particulate and molecular filtration offered in one compact package.

The City M is a portable unit that includes two filter-packages. Each package contains a cleanroom grade HEPA filter and a molecular gaseous contaminant filter that provide up to 433 m<sup>3</sup>/h of clean air, perfect to deliver an effective air change rate for an indoor area of 75 m<sup>2</sup> or smaller. The unit can be moved from room to room and plugs into any 230V outlet. Its sleek, clean line exterior design is available in either a white or black finish.

There are numerous needs for cleaner air in commercial spaces, either due to internally generated contaminants with high levels of particulates and gases, or under-designed ventilation systems. These include, executive offices, conference rooms, school classrooms, hotels, hospitals, laboratories, museums, doctor and dental offices, and nursing homes. Indoor Air Quality (IAQ) awareness is growing, and has been scientifically proven to impact productivity, absenteeism, and health care cost – major economic factors for all businesses.

## FACT

Many of the pollutants common in the air today are emissions from furniture, wall paint, cosmetics, air fresheners, cleansers, carpets, aerosol propellants, pens and markers, building material, waxes and polishes, plasticizers and more.

# CAMFIL CITY M FILTERS VERSUS OUR COMPETITORS

It's what is in the box that matters.

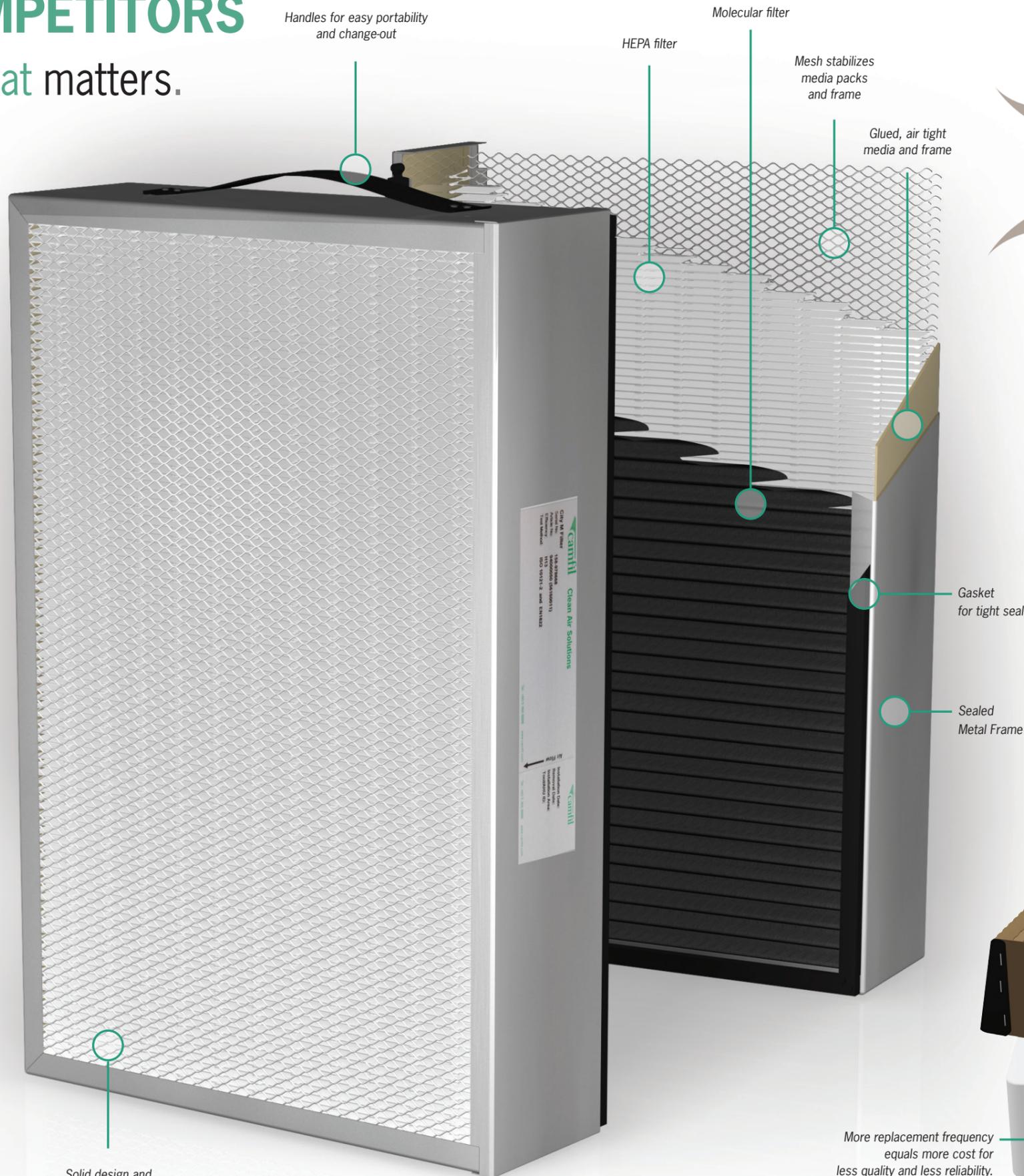
## CAMFIL CITY M FILTERS The heart of performance is the Camfil filtration technology.

- 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 1/2-2 times** the filter life for operational cost savings.
- **50% less** energy consumption than competitors' units.

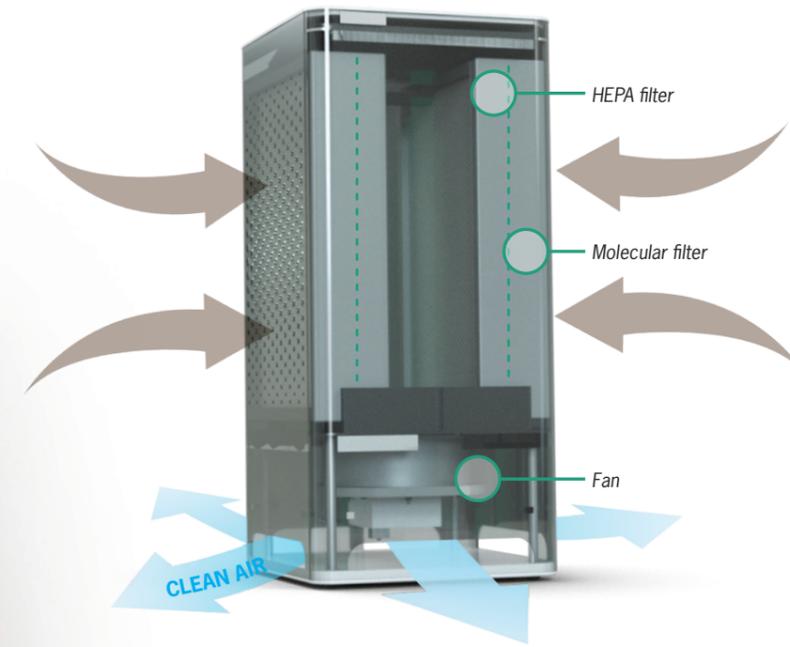
The City M Air Purifier includes two filter-packages with each package containing a HEPA and a molecular filter.

**CAMFIL CITY M AIR PURIFIER**  
Superior Design and  
Uncompromising Quality.

Solid design and engineering

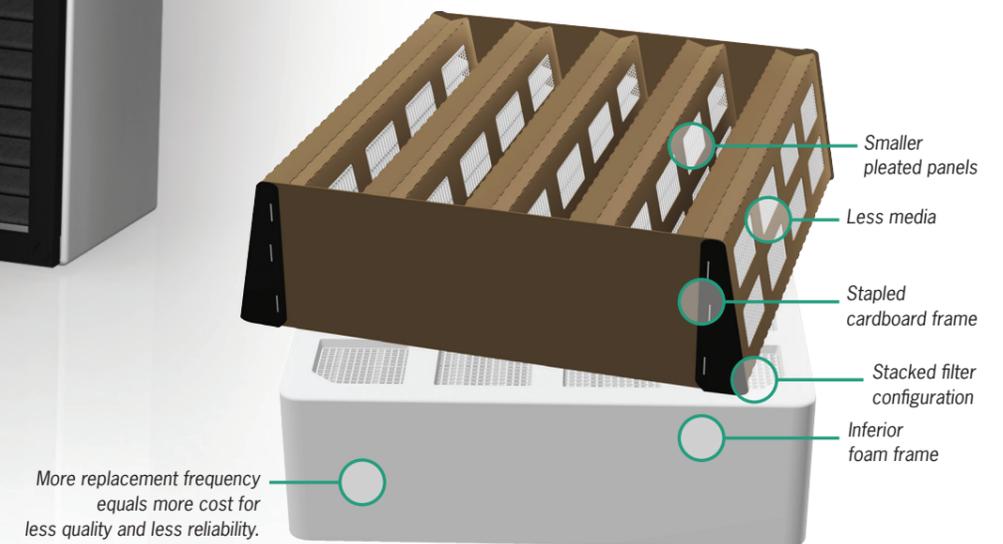


Clean air – free of particles and harmful pollutants, gases or odors is dispersed in all directions, 360°.



- Two-sided intake configuration allows for two vertical filters.
- Powerful EC fan
  - ♦ Latest technology with high efficiency and great power.
  - ♦ Low energy consumption.
  - ♦ Low noise levels.
  - ♦ Operates on average at 50% of total capacity—plenty of additional power when needed.

## COMPETITORS' FILTERS How our competitors "Stack Up"



More replacement frequency equals more cost for less quality and less reliability.

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

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.

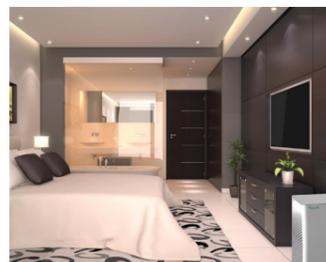
It's an unpleasant truth that indoor air can sometimes be even more polluted than the air on an average city street. Many of the harmful particles produced indoors are common pollutants like fungi and various volatile organic compounds (VOC). The City M removes all of these and more.

Camfil City M Air Purifiers — Specifically designed for indoor environments such as offices, schools, hotels, hospitals, public buildings, and homes.



Prime Application: Dental Offices

Prime Application: Lasik and Medical Facilities



Prime Application: Healthcare and Nursing Care



Prime Application: Hotel Industry



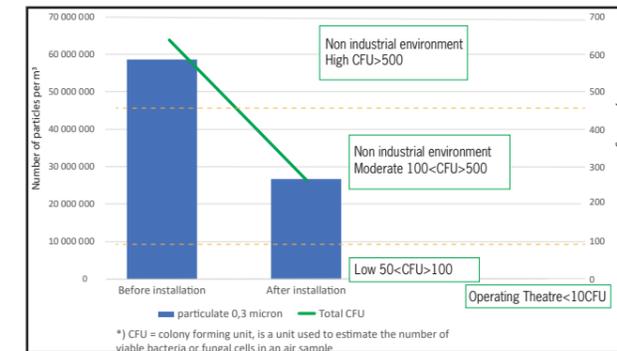
The **HEPA filters** used in the **City M** are so **efficient** that air would have to pass through an average ventilation system **three times** to achieve the same level of purification.

# 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.

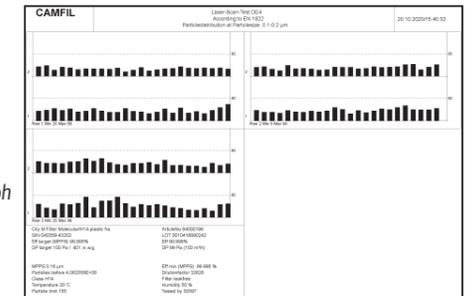
Room (20m<sup>2</sup>) - Airborne purification impact with air purifier treatment.



## 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.



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

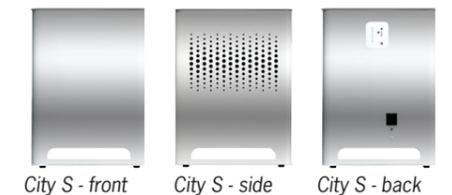
# TECHNICAL INFORMATION.

## 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 <sup>-1</sup>	3200
Power input	W	83
Current draw	A	0.75
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	+60



City S - front City S - side City S - back



City M - front City M - side City M - back

## AIR FLOW

Step	City S				City M			
	Qv [m <sup>3</sup> /h]	N [rpm]	Pe [W]	LpA* [dBA]	Qv [m <sup>3</sup> /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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