CITY M
Air Purifier

CITY M is an air purifier equipped with highly efficient HEPA filters and activated carbon filters. Each HEPA filter inside the air purifier is individually scanned according to EN 1822 standard, which provides proof of classified H14 filters. This makes the CITY M air purifier most efficient in reducing harmful particles, odours and in some cases gases that are commonly found in indoor air inside homes, offices, schools, hospitals, gyms, and public buildings.

Many of these indoor air pollutants are emissions from furniture, wall paint, cosmetics, air fresheners, cleaning agents, carpets, aerosol propellants, pens and markers, building material, waxes and polishes, plasticizers, etc. Area with high levels of such pollutants can cause "bad" air symptoms in people. With the CITY M air purifier, they are taken care of. They are designed to work as a supplement to existing ventilation system and reduce energy costs, more efficient production and a healthier work environment with less dust and fewer harmful particles.

Air quality recommendation with the air purifier

Compared to common products on the market, the amount of the filter media used in the CITY M can be up to 14 times higher than other air purifiers. This results in a longer filter life and dust retention capacity, without compromising the passage of air. CITY M is equipped with high-efficiency HEPA H14 filters that will remove 99.995% of MPPS (most penetrating particle size) particles from 0.1 to 0.25 microns.

Clean air – free of harmful particles and pollutants – is dispersed in all directions, at 360 degrees.

- Combating the most penetrating particulate size
- Risk reduction of airborne infection
- Each filter is tested individually and certified
- Reducing microbiological contamination
- Plug & Play
- Less dust

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Filter

Why HEPA and molecular 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 with combination media for both particles and odor. HEPA H14 filters have an efficiency of 99.995% calculated on the size of MPPS. Our activated carbon filter removes odors and harmful gases and using the RAD techniques (rapid adsorption dynamics) for quickest removal of the gases.

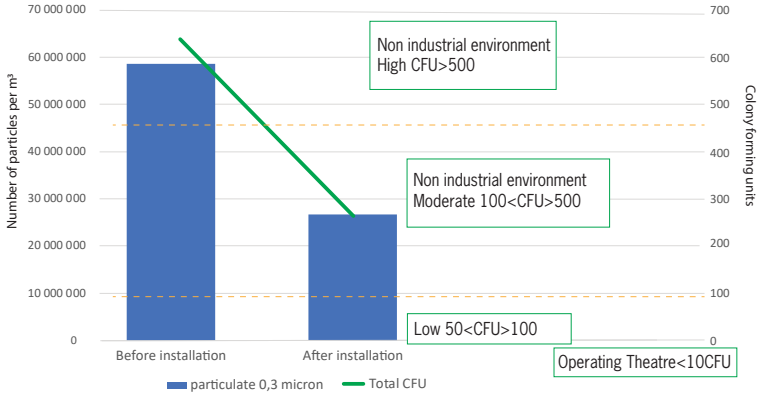
At Camfil, each HEPA filter is tested according to EN1822 to certify the filter efficiency before they are shipped. Meanwhile, the production of activated carbon filters are according to ISO10121 to secure the performance of the filter.

What is MPPS and its link to viruses?

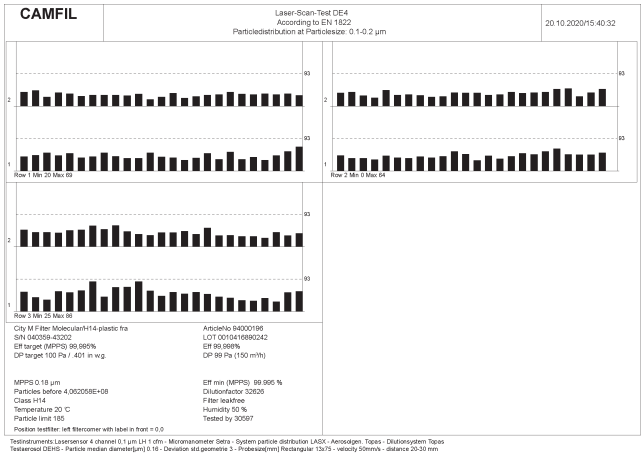
The efficiency of HEPA filters is measured in MPPS (most penetrating particle size), which is the particle size that is most likely to navigate its way through a filter that represents the lowest efficiency of the filter. MPPS is generally between 0.1 and 0.25 microns. This means that a filter in class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

Room (20m ²) - Airborne purification impact with air purifier treatment



*) CFU = colony forming unit, is a unit used to estimate the number of viable bacteria or fungal cells in an air sample



An example of the EN1822 scan test certificate that accompanies each individually scanned filters

Molecular & HEPA Filter H14

Article Number (incl. 2 pcs): 94000196
Dimension (WxHxD): 300x460x98 mm
Airflow: 150 m³/h
Pressure drop: 94 Pa
Frame: White plastic profile
Gasket: Seamless PU-foam
Media: Activated carbon type CS and HEPA glass fiber
Separator: Hot melt beads
Sealant: Polyurethane (2-K-sealant)
Grille: Protective mesh on HEPA side
Efficiency: H14 according to EN1822
MPPS efficiency: ≥99,995%
Individually scanned filters: Certificate with minimum efficiency on MPPS typically between 0,1- 0,25 µm.
Max. final pressure drop: 500 Pa
Max Temperature: 60°C
Relative Humidity max (HEPA filter): 100%
Relative Humidity (molecular filter): up to 70% for optimal efficiency
Weight: 2.0 kg
Remarks: Combination filter for the removal of odors, organic, and inorganic gases and HEPA for the filtration of particles.

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Technical data and dimensions

Article Number: 94000047 (white),
94000048 (black)
94000199 (air image connectivity)
Dimension (WxHxD): 340x720x345 mm
Colour: White or Black
Weight: 15 kg (including filters)
Power supply: 200..240V
Average air purification area: 75m²

Fans speed setting	Airflow (m^3/h)	Noise level * (dBA)	Power consumption (W)
1	37	16	4
2	67	21	5
3	94	28	6
4	127	35	7
5	251	45	19
6 Max.	433	54	55

*tolerance +/- 10%

Accessory

Air Image Sensor

- **Monitors and tracks air quality**
- **Controls indoor air quality**
- **Energy savings through smart connectivity**
- **World map IAQ levels**

For more details please visit our Air Image Sensor product page on our website.