



CITY H is an air purifier engineered with a suction arm to protect people and processes by reducing airborne contaminants as close to the source as possible. The high efficient and individually scanned filters according to EN 1822 standard provides proof of classified H14 filters. City H is most applicable in places such as dentists, hospitals, and laboratories where a major concern is the risk of air contamination. Airborne contaminants can come into contact with the airways, mucous and eyes of the employees and patients resulting in the risk of airborne infection.

Particle and microbiological contamination are compounded by the release of contaminants generated by treatments and the sanitization of surfaces and tools. Disinfection procedures are necessary to remove microbiological deposits from surfaces and tools, but have no effect in removing particles in the air. It is therefore necessary to intervene through air purification to break down the concentration of airborne particles thus limiting their aerial diffusion and sedimentation.

Air quality recommendations with the air purifier with suction arm

Compared to common products on the market, the amount of the filter media used in the City H 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 H 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, gases or odors – 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

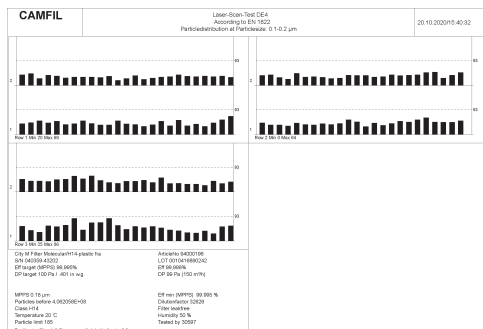
Filter

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 H air purifier is equipped with two HEPA H14 filters. HEPA H14 filters have an efficiency of 99.995% calculated on the size of MPPS.

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.



Certificate of individually scanned filters

HEPA Filter H14



Article Number (incl. 2 pcs): 94000194

Dimension (WxHxD): 300x460x98 mm

Airflow: 150 m³/h

Pressure drop: 55 Pa

Frame: White plastic profile

Gasket: Seamless PU-foam

Media: 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%

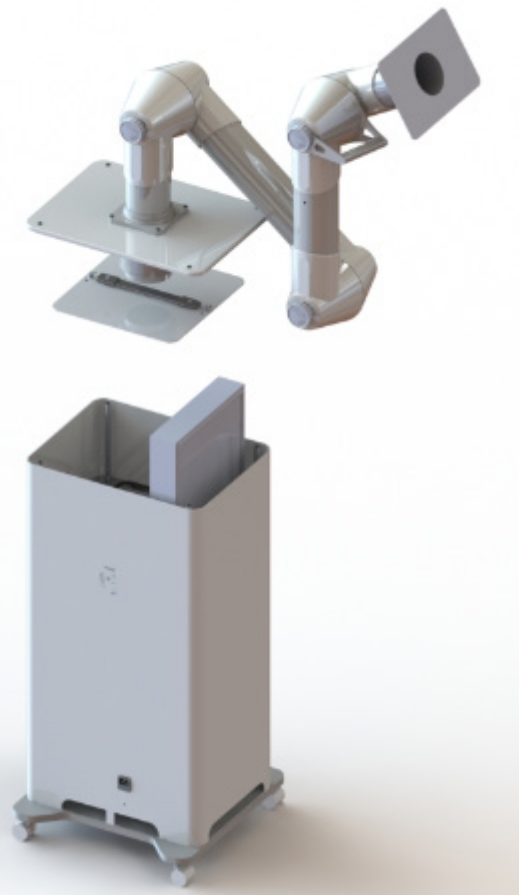
Individually scanned filters: Certificate with minimum efficiency on MPPS typically between 0,1- 0,25 µm.

Max. final pressure drop: 500 Pa

Max Temperature: 60°C

Relative Humidity max: 100%

Weight: 2.0 kg



Technical data and dimensions

Article Number: 94000203

Dimension without arm (WxHxD): 454x720x454 mm

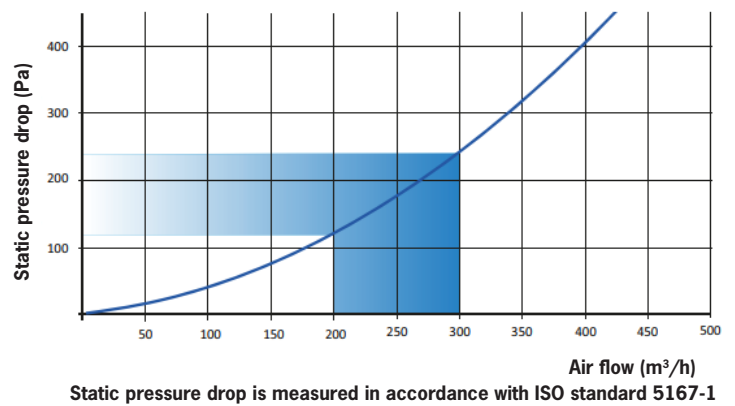
Maximum height with arm: 1290 mm

Colour: White

Weight: 25 kg (including filters)



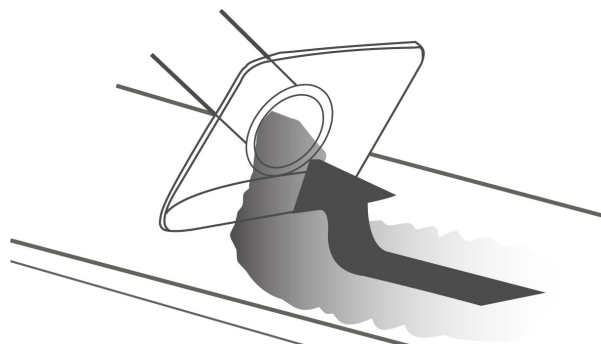
OPTIMAL AIR FLOW FOR EXTRACTION ARM



Fans speed setting	Airflow (m ³ /h)	Suction arm velocity (m/s)
1	21	1,4
2	47	2,7
3	60	4,1
4	75	5,5
5	155	7,7
6 Max.	277	9,8

Flat Screen Suction Hood

The flat screen suction hood is designed to maximise the working area without obscuring the object from the user. A good example would be dental clinics, where the suction hood can't be too close to the working area and dental instruments. It has a suction distance of 200 to 700 mm. The CITY H recirculates up to 8 ACH (air changes per hour) in a room and therefore is very efficient and a good complement to the existing ventilation system.



Recommended suction distance: 200 - 700 mm