



PEPA-F™

Pathogen Eliminating Particulate Air Filter

**For Heating, ventilation and air conditioning
(HVAC) Systems**

Effects of the global COVID-19 pandemic on public transport

Changing safety requirements for passengers :

Social distancing difficult in crowded public transport

Existing air filtration in HVAC systems too basic for protecting passengers against covid-19

Far-reaching financial impact for operators :

Dramatic decline in passenger numbers

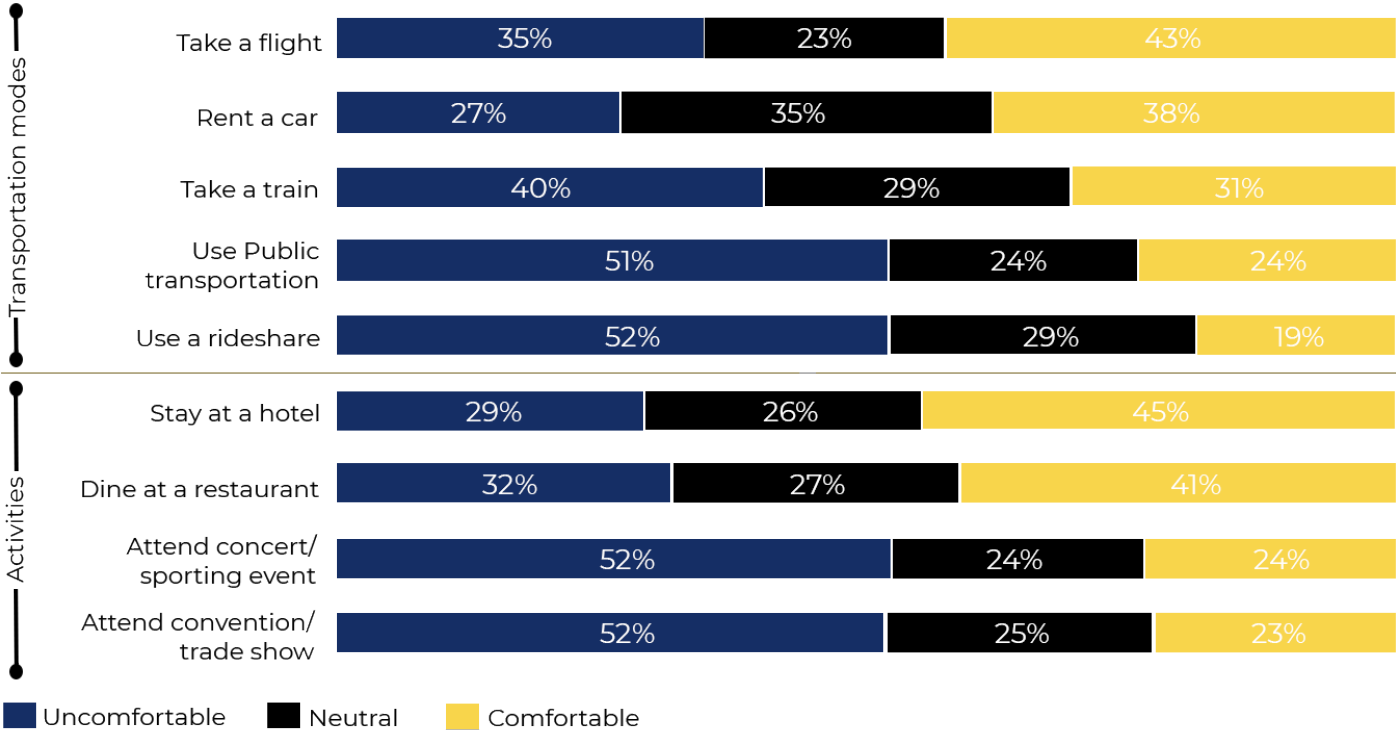
Loss in revenues, e.g. reduced ticket sales

Increased operational efforts, e.g. cleaning needs, upgrade vehicles with additional safety measures



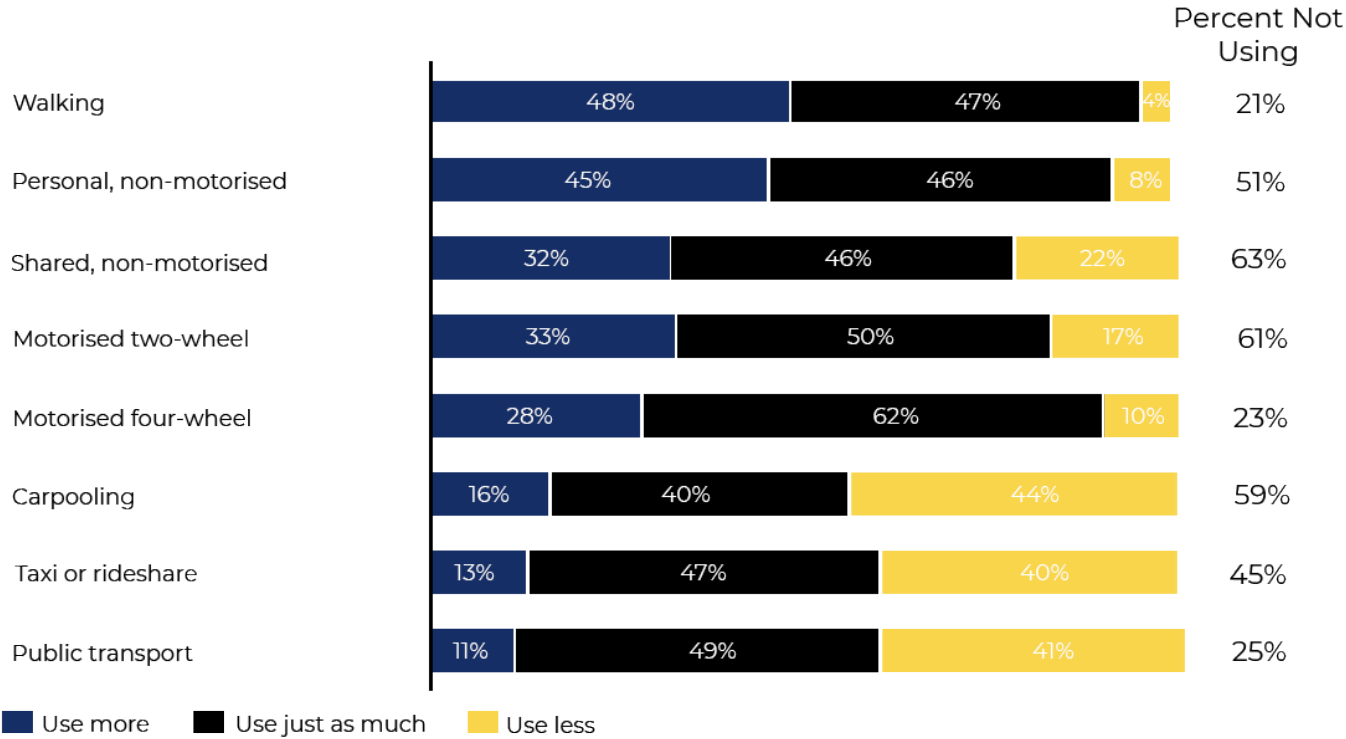
Effects of the global COVID-19 pandemic on public transport

After Covid-19 outbreak ends and travel restrictions are lifted, how comfortable will you feel doing each of these activities?



Effects of the global COVID-19 pandemic on public transport

When the pandemic ends, which means of transport do you plan on using for your daily or weekly commute to your workplace or place of study within 2 hours of home?



Effects of the global COVID-19 pandemic on public transport

Transportation sector must regain trust

Boosting passengers confidence in public and mass transport

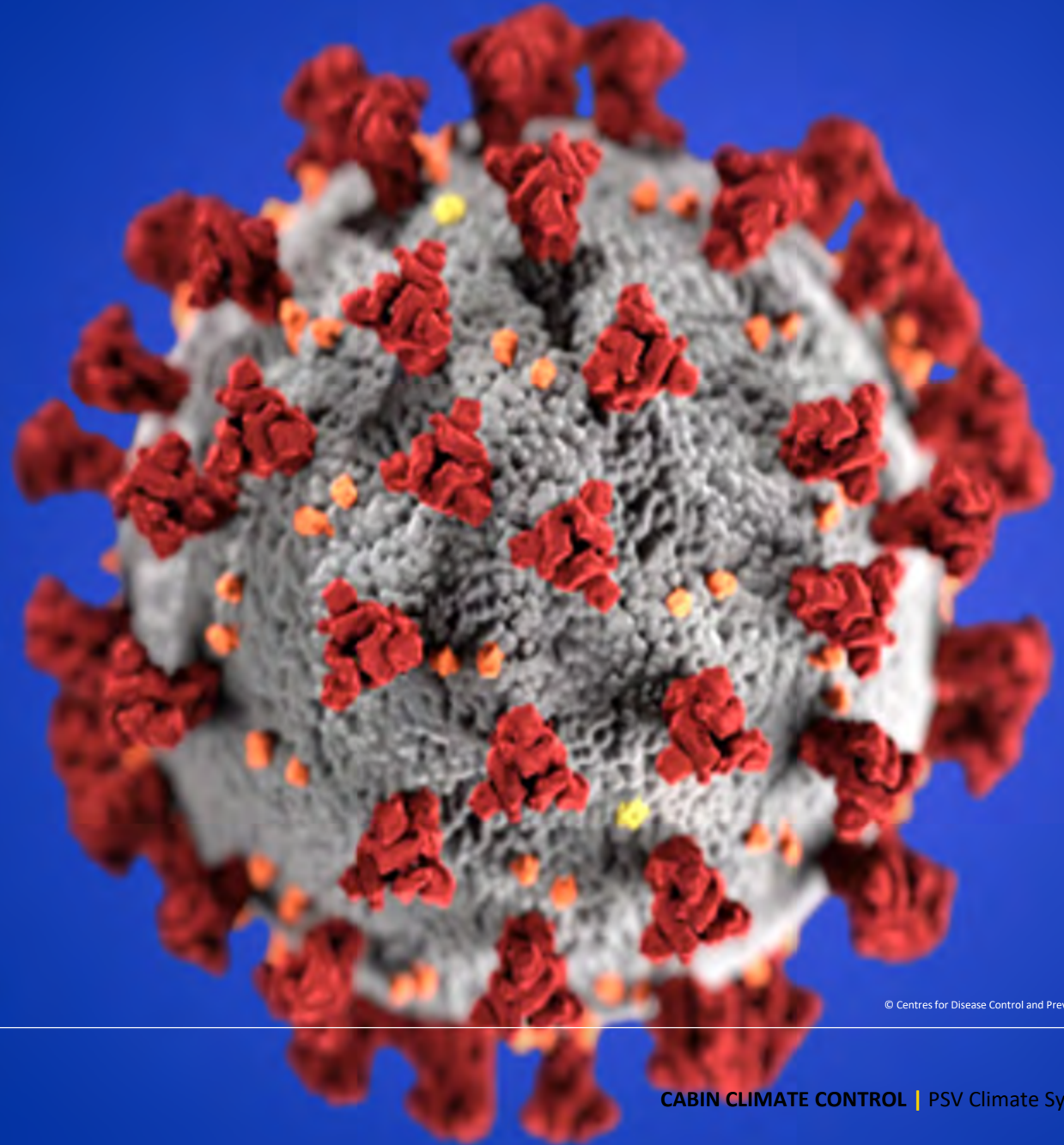
Avoiding shift to other modes of transport has an increased priority again

Fostering long-term healthy alternative to congested and polluted cities

Ensuring the health and safety of operations and maintenance staff



The aerosol transmission of the coronavirus is particularly concerning in closed, crowded locations with inadequately ventilated spaces.

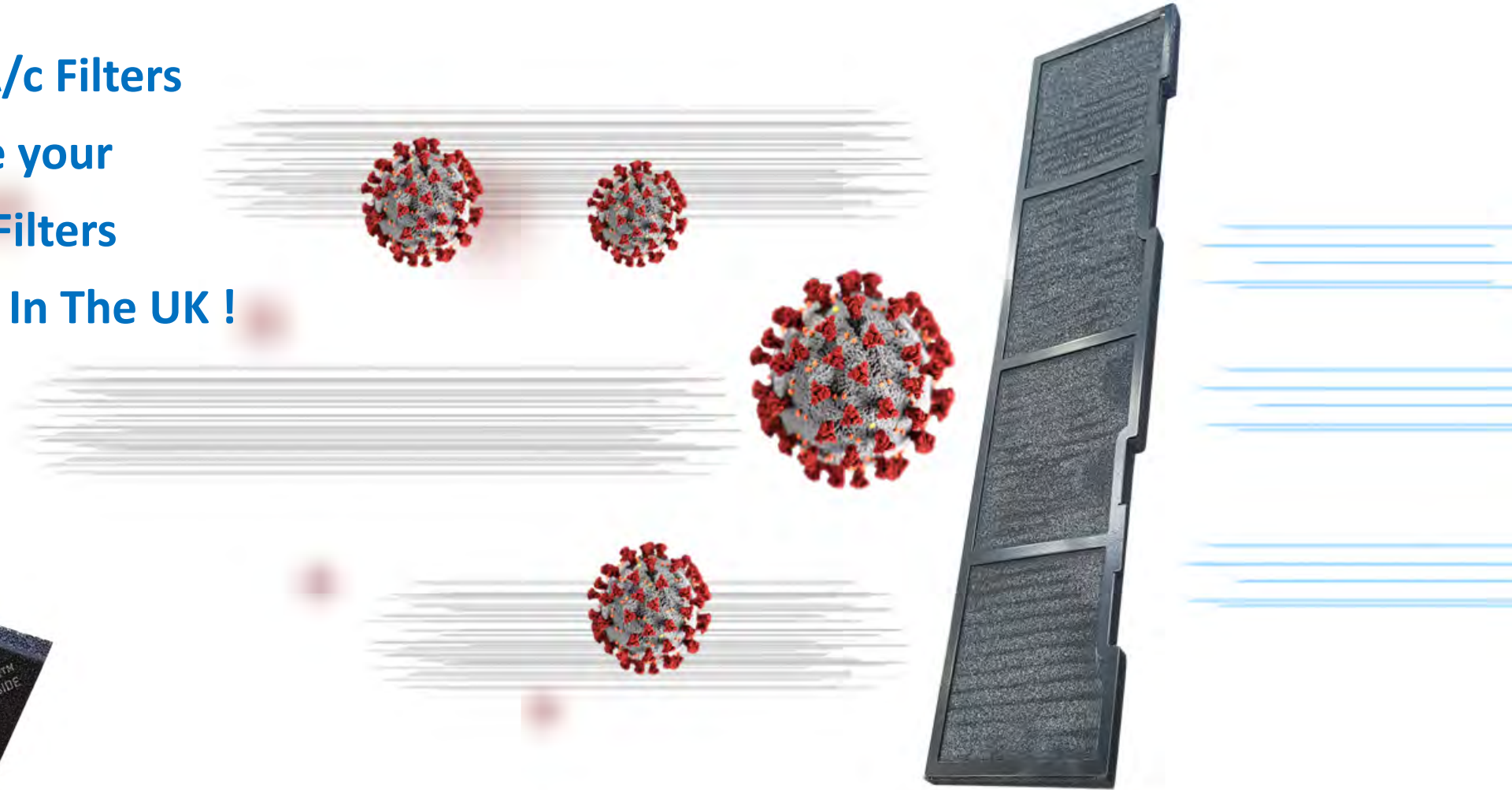


© Centres for Disease Control and Prevention

COVID-19 Drop In A/c Filters

Designed to replace your
existing A/c Pollen Filters

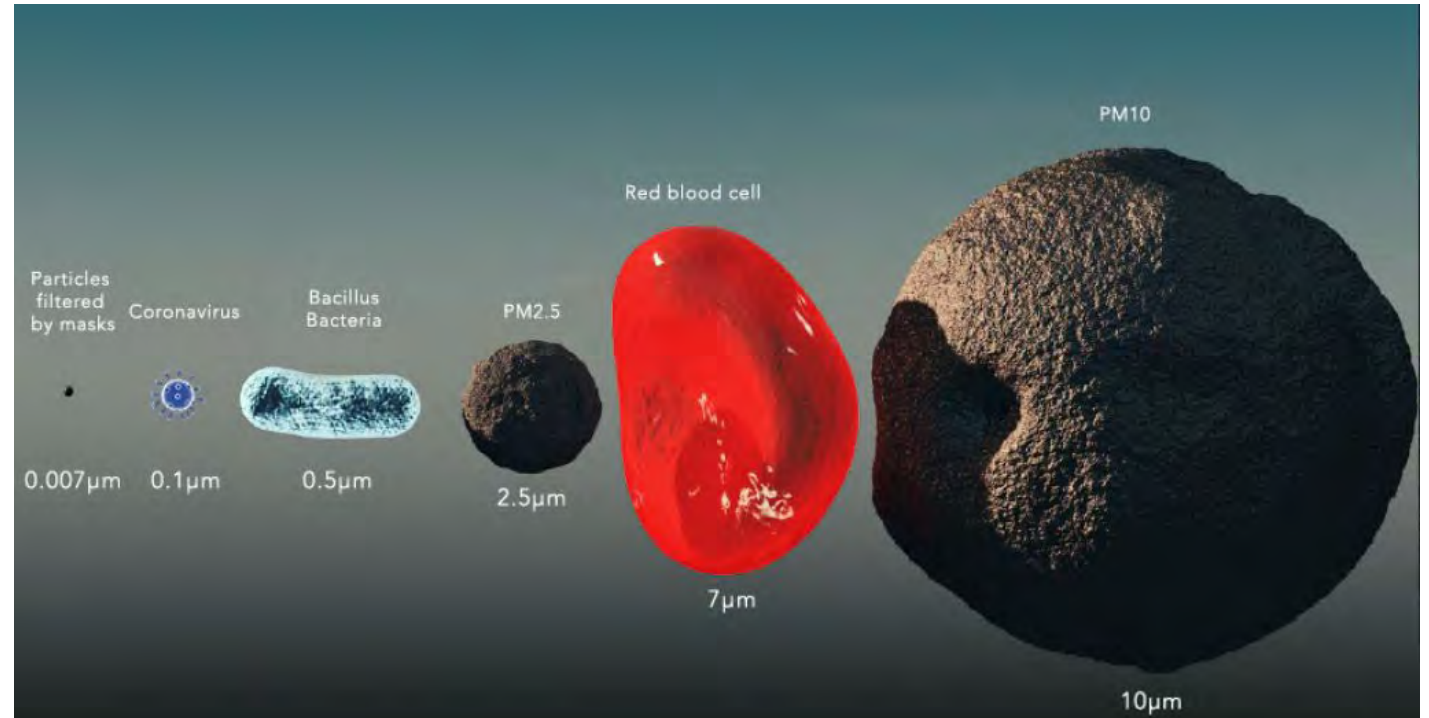
Developed & Made In The UK !



Coronavirus virion size in comparison

The very small size of the coronavirus presents a challenge to modern technology

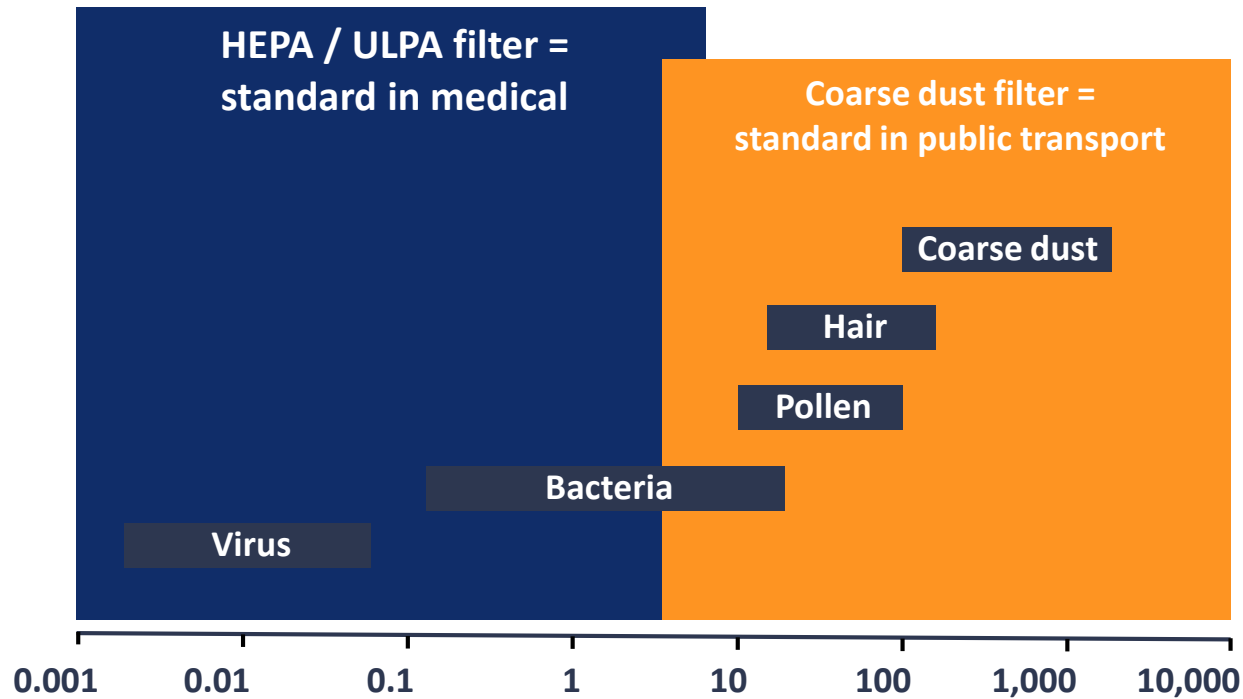
The coronavirus spreads primarily through droplets when an infected person coughs or sneezes



Source: <https://abcdust.net/how-large-is-a-corona-virus-virion-compared-to-the-mp10-2-5/>

Air filtration systems

Existing filter systems do not reduce the risk for passengers nor staff in public transportation



Coarse dust filter
do not capture viruses nor their carriers

HEPA / ULPA filters
capture viruses (with their carriers) but are not suitable for transportation

- air pressure drop too high
- changing frequency too high

Filtering out droplets from the air in public transport requires new solutions

PEPA-F™

Pathogen Eliminating Particulate Air Filter

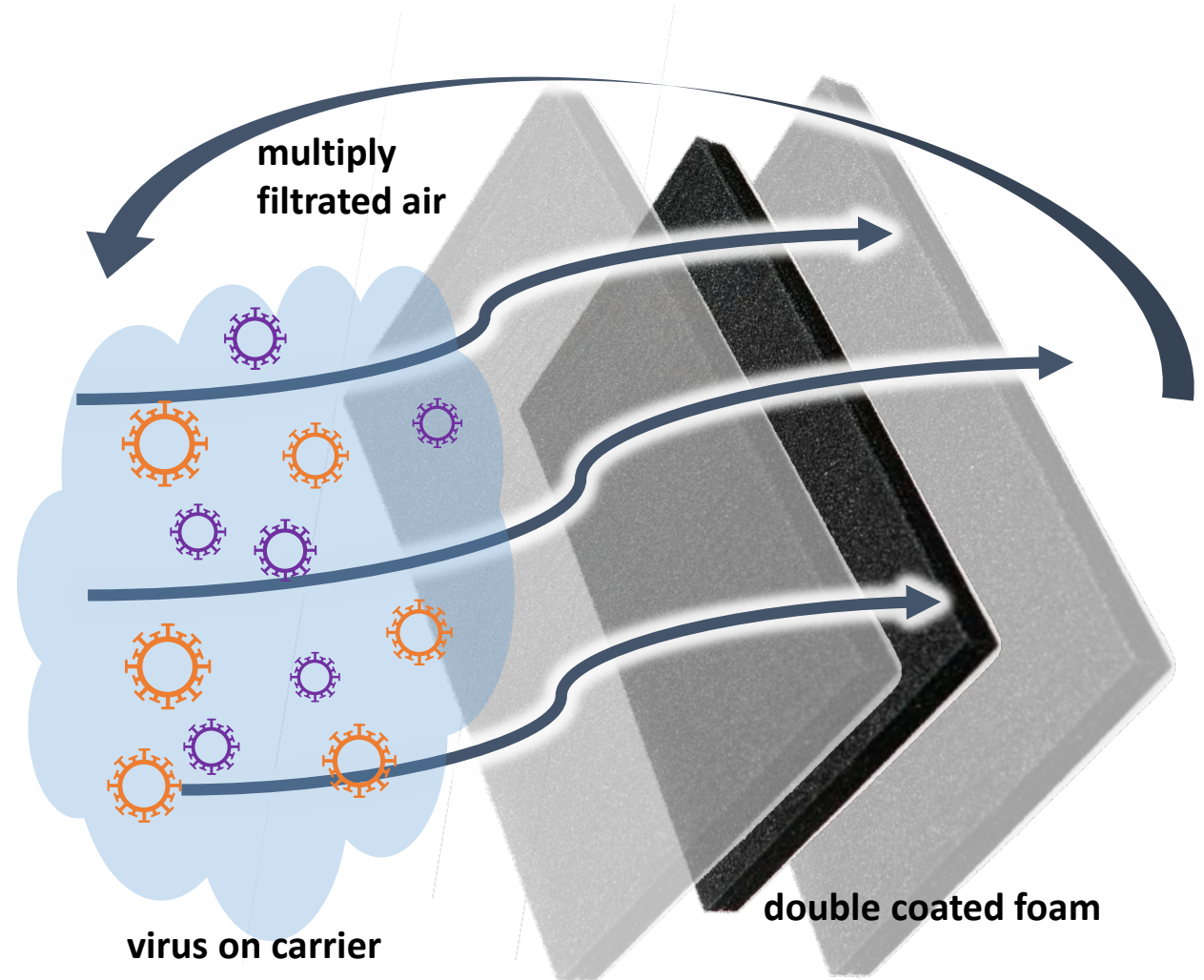
How is the filter composed?

- ❑ It is a dual or triple laminated foam filter with double coating prefilter for larger particles & inner layer for finer particles.
- ❑ Second silver impregnation cured into the filter for coronavirus elimination.

How does the filter work?

A two-step approach

1. Capture the carrier, e.g. water, dust, aerosol, of the coronavirus
2. Kills the virus thanks to registered silver technology formula, not allowing it to pass through the A/c system





**immediately
available solution**

99.99%

**effective against
SARS-CoV-2 (Covid-19)**

PEPA-F™

Key Features

- ☐ Drop In - Same Dimensions of Existing Filter
- ☐ Life Span - Same as Original Filter
- ☐ 100% Safe - Virus is killed, not contained in the filter
- ☐ No Air Pressure Drop - Designed to Keep Your A/c Performance High



PEPA-F™

10 min

quick installation time per HVAC

up to 6 months

changing interval is up to five times longer compared to basic filters

0 training hours

required as same changing process as for basic filters (accept recommendation for PPE)

100%

safe for maintenance personnel when installing / changing the filter as virus gets killed, not just blocked



For safe and easy installation, a red stripe identifies the antiviral impregnated filter.



Immediate availability



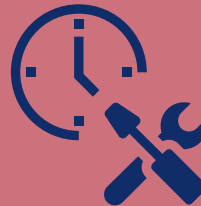
Kills the virus



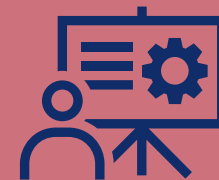
Safety ensured



Optimal air quality



Quick installation



No additional training

The background image shows two buses parked on a paved surface. On the left is a white bus with 'e.City Gold' written on its side and 'CAETANO' on its front. It has blue accessibility icons (wheelchair, person, stroller) on its front. On the right is a gold bus. In the background, there is a modern building with large windows and a blue sky with some clouds.

Filters available for the a/c systems for the following vehicles:

**Beulas, Caetano, Irizar, Jonckheere, MAN Tourliner, Mercedes Tourismo, Plaxton, Scania Interlink /OmniExpress / Touring, Setra, Sunsundegui, Vanhool, Volvo & VDL.
Application list work in progress, so call with your requirements.**

Thank You