

# PEPA-F™ pathogen filter

FOR HEATING, VENTILATION AND AIR  
CONDITIONING (HVAC) SYSTEMS



The aerosol transmission of pathogens is particularly concerning in closed, crowded locations with inadequately ventilated spaces. Thanks to a special impregnation, the PEPA-F pathogen filter captures and eliminates bacteria and viruses at highest effectiveness.

## KEY BENEFITS

- Pathogen killer with 99.8% efficiency
- Filtration lower than a micron, up to ePM1 50%
- Immediate availability
- Safety ensured
- Optimal air quality
- Quick installation

## GENERAL DESCRIPTION

The filter is composed of a multi-layered, reticulated foam filter including a double coating to avoid the transmission of pathogens. It includes a pre-filter for larger particles, another layer for finer particles, a first impregnation for fire and smoke protection and a second silver technology for pathogen elimination. The pathogen HVAC filter follows a two-step approach: it captures the carrier (e.g., water, dust, aerosol) of the pathogen, then it kills it thanks to silver technology.

## CUSTOMER BENEFITS

### Safety and confidence

Using innovative technology in public and mass transport not only boosts passenger's confidence, but also fosters a long-term healthy alternative to congested and polluted cities, while ensuring the health and safety of operations and maintenance staff.

### Fast and easy to install

The HVAC system is 100% safe for maintenance personnel. It is easy to install (no training hours required) in just 10 minutes installation time per HVAC unit.

### Maximised efficiency and effectiveness

The solution is sustainably 99.8% effective against viruses until the end of the filter's life (efficiency proven as per ISO 18184, version 2019, in laboratory environment, as per ISO 17025). The solution is available up to ISO16890 ePM1 50% with compliancy toward fire & smoke railway referential EN45545.

### Availability

The pathogen filter for HVAC systems is an immediately available solution. The filter is fully scalable and customisable.

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## MAIN CHARACTERISTICS

- Reticulated foam pre-filter with alumina tri-hydrate impregnation for fire and smoke protection
- Enhanced pleated media supporting fine particulate filtration
- Silver technology for pathogen elimination (non-nano)
- Foam filter has a higher dust holding capacity than paper filters

## CUSTOMER REFERENCES

Customers in Canada, USA, the UK, Spain, Sweden, France and Germany see the potential benefits from our pathogen filter. Our pathogen filters have been installed on buses, trains, and buildings, covering a variety of vehicle types and operations.

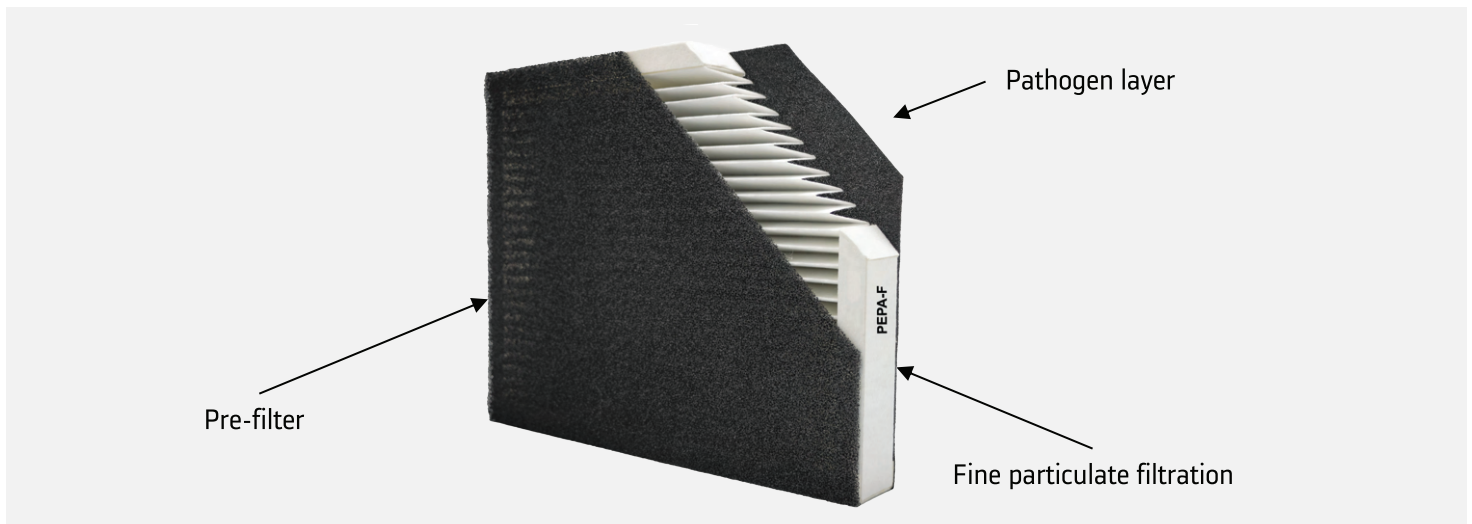
The testing started in October 2020, on two Electrostar™ train fleets in the UK. The filter performed well, without impact on thermal comfort.

## INSTALLATION

The installation of the pathogen HVAC filter is fast, easy and safe. No training hours are required as it is the same changing process as for basic filters (accept recommendation for Personal Protective Equipment).

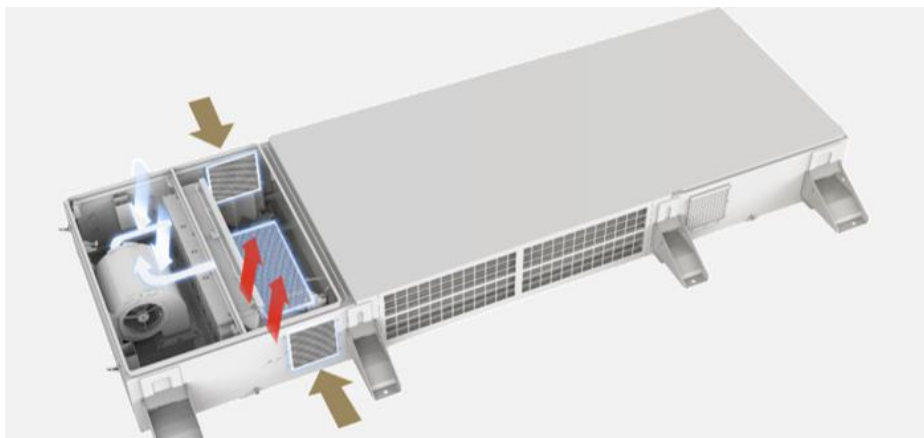
The filters are designed to maintain the usual lifespan (from 2 to 4 months) while significantly increasing the filtration grade (changing interval is subject to environmental conditions).

The safety for maintenance personnel when installing or changing the filter is up to 100%, as the pathogens get killed, not just blocked.



## CONCLUSION

The PEPA-F pathogen filter is one of the most cost-effective solutions to capture and deactivate pathogens for an optimised air quality.



### FOR MORE INFORMATION:

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