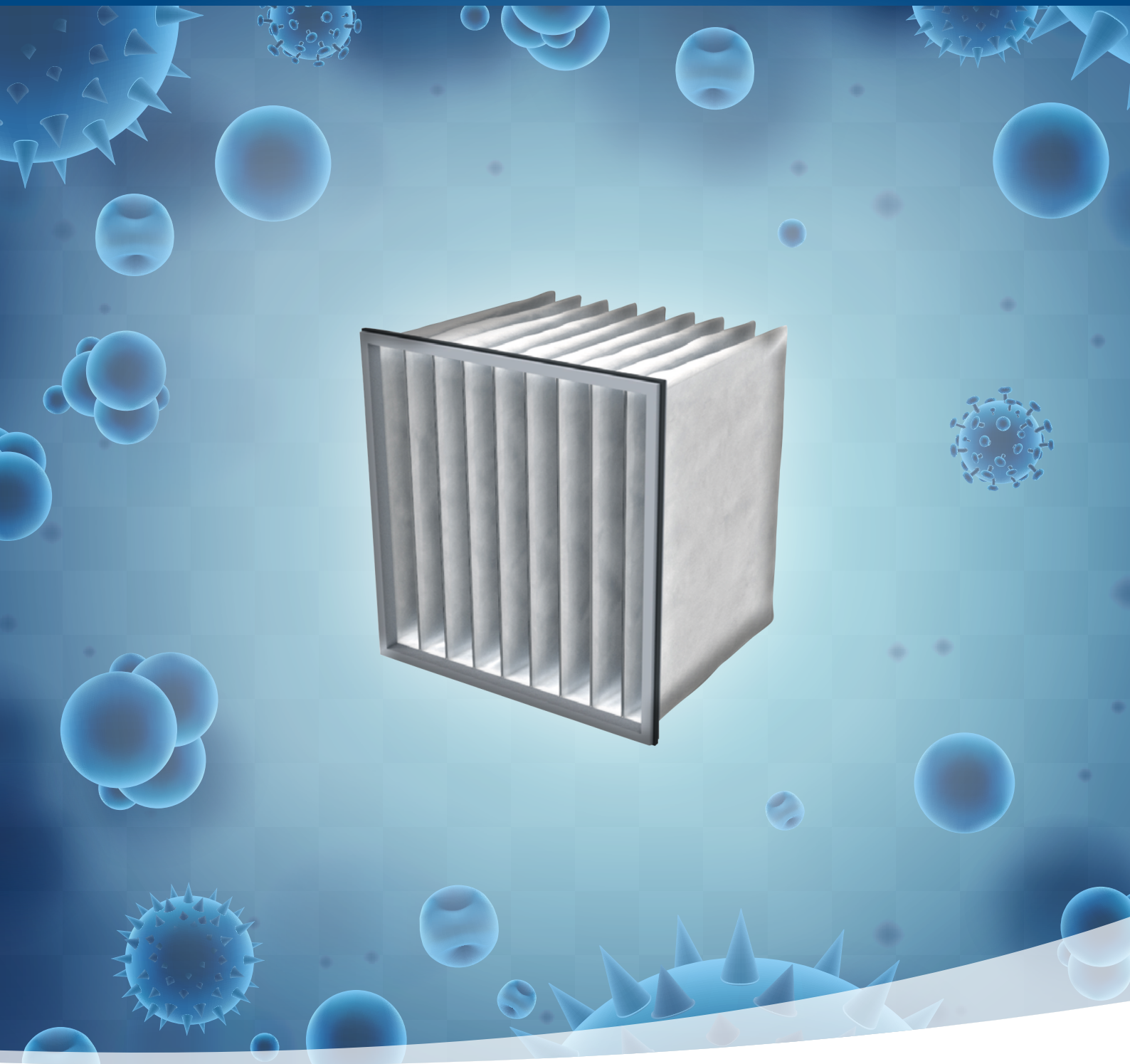


DELTRI+ powered by Pacific Ventilation

Virucidal air filters for your AHUs

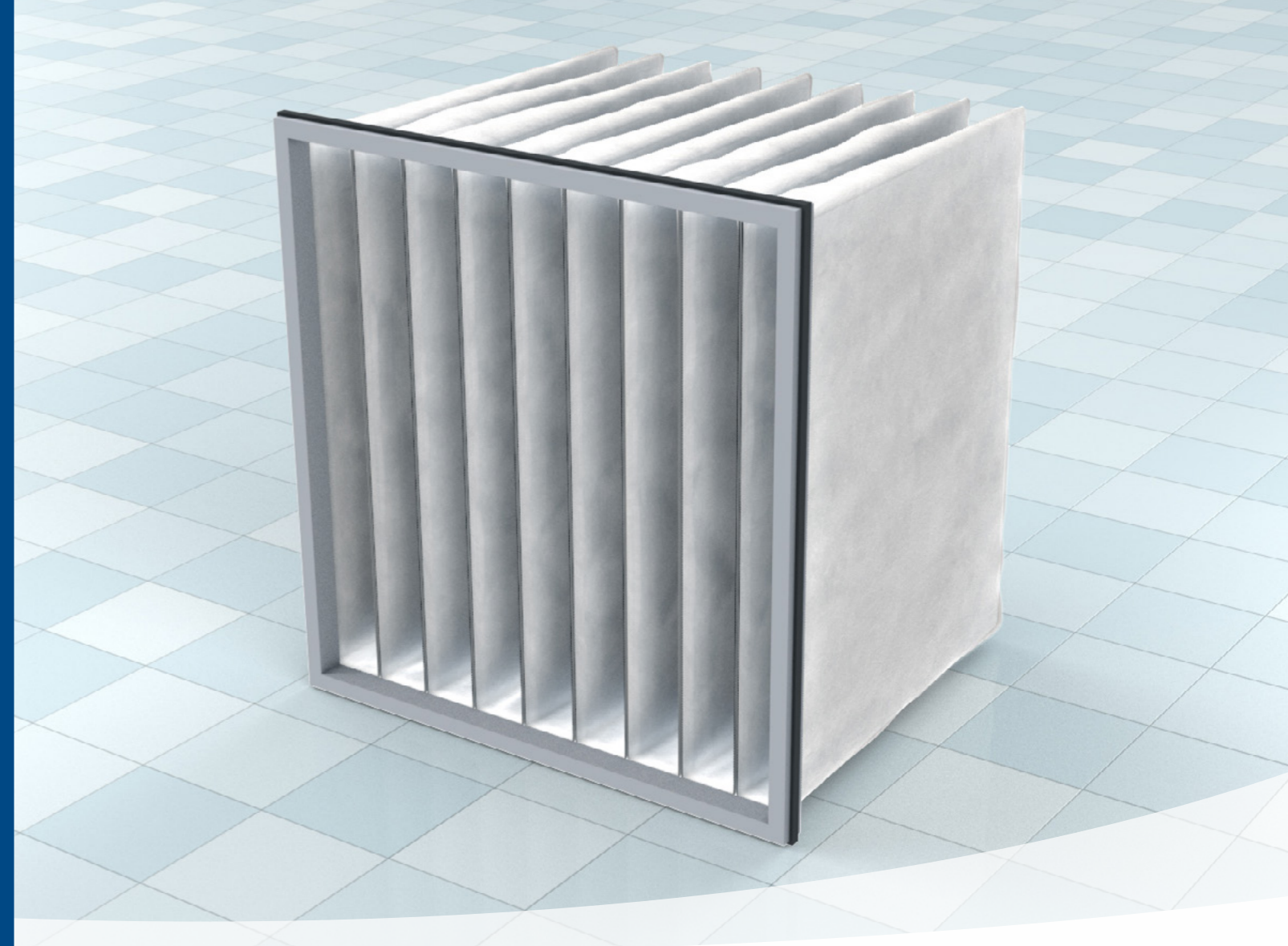


Pacific Ventilation

Pacific Ventilation and Deltrian, a leading Belgian filter manufacturer, have joined forces to provide you with a new generation of filters for air handling units (AHUs). Scientifically tested by the Luxembourg Institute of Science and Technology (LIST), our virucidal filters neutralise corona viruses.

In line with our proven #HygienicByDesign concept, we offer air filters with DELTRI+ technology as...

- Replacement filters in standard and special sizes for existing AHUs – **independent from their brand**.
- An optional order item for all newly shipped Pacific Ventilation AHUs.
- A filter option selectable in our AHU configurators (Oct 2021).



Benefits with DELTRI+

- Building owners can quickly improve existing units before thinking about more extensive upgrades to their ventilation systems.
- For facility managers, the filters enable additional safety when exchanged.
- Compared with other methods utilised for virus prevention (e.g., UV-C lights), our DELTRI+ filters constitute a straightforward solution, easy for you to apply, handle, and sell.

"Operators do not need to worry about significantly increasing energy cost. In addition to its virucidal functions and being classified ISO16890 ePM1 90%, the filter holds an Eurovent Certified Performance A+ energy class rating, ensuring a

low-pressure drop and market-leading dust holding capacity with the best possible energy efficiency"




Peter Gibson
Managing Director, Pacific Ventilation

Technical data of the Deltrian NWES98PLUS standard size filter with DELTRI+ technology

ENERGY SAVING	Description	Width A (mm)	Height B (mm)	Depth C (mm)	Pocket	Filter area (m ²)	Flow rate (m ³ /h) Delta P (Pa)	Energy class
		NWES98PLUS-6/400/11	592	592	400	11	13	3400/98

ePM1 - 90%



VALID
ACCORDING TO
EN18184

VALID
ACCORDING TO
EN14476

ISO
10705

ISO
16890

NEW

Application example

Replacing an extract air filter in a compact air handling unit with DELTRI+ air filter.



How does the DELTRI+ technology work?

The Luxembourg Institute of Science and Technology (LIST) has confirmed the anti-virus activity of DELTRI+ following in-depth laboratory tests.

Here is how and why it works:

1. As tested by the Luxembourg Institute of Science and Technology, DELTRI+ Technology significantly reduces biological aerosols including SARS-CoV-2, making it effective against COVID19.
2. The treated filter surface activates on contact with the droplets that carry viruses.
3. After the contact time, viruses are inactivated and no longer infectious.

What do we offer?

Pacific Ventilation can provide you with the following filter types:

- ISO16890 ePM1 90% (comparable to EN 779 F9)
- All standard AHU filter sizes and special formats for compact units

Good to know: Some high-quality face masks already utilise comparable technology. DELTRI+ brings a similar concept to the HVAC sector, suitable for much larger surfaces and usage times.



Deltrian+ is available in Australia exclusively through Pacific Ventilation.



"We are proud to cooperate with one of the world's leading ventilation companies in launching DELTRI+. Pacific Ventilation's technical expertise and long-term market knowledge have proven invaluable in the development of this solution. After all, we are proud to say that DELTRI+ can capture and inactivate viruses. Its effectivity is proven in dry and wet environments, open and closed circuits alike. In addition, the filters reduce the risk of transmission and proliferation of viruses and bacteria in the air. While it does not replace other preventive measures, we consider it a hands-on contribution to support a return to a more normal life."

Jürgen Alexius
Owner and CCO, Deltrian

What else should I know?

These are answers to the most frequently asked questions:

- As tested by the Luxembourg Institute of Science and Technology, DELTRI+ Technology significantly reduces biological aerosols including SARS-CoV-2, making it effective against COVID19.
- Deltrian has developed this technology to last over a commonly recommended filter life cycle prescribed by your type of application and environment, but not longer than one year. We generally encourage more frequent filter replacements.
- The technology's reliability ultimately depends on how well you maintain your air handling units.

For more information, please look at our FAQ section, which provides more in-depth insights into DELTRI+.

FAQ

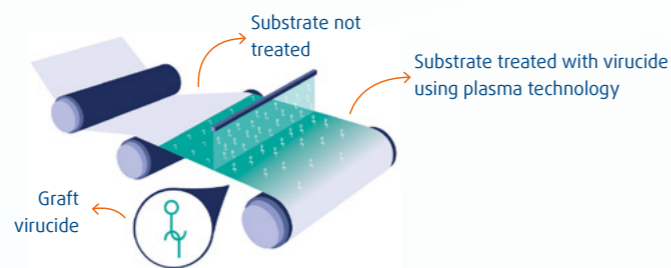


How were the filters tested?

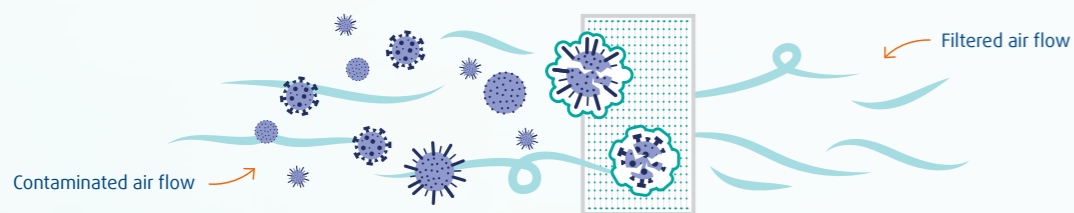
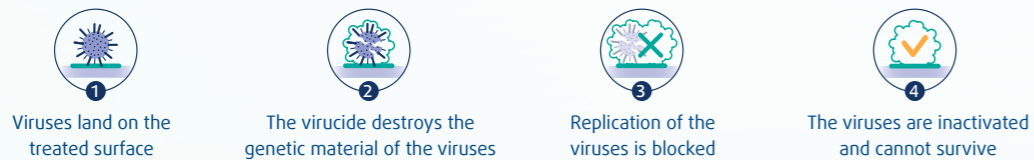
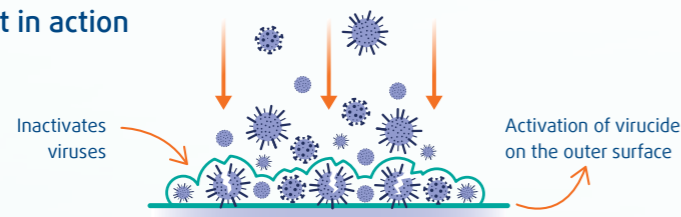
The Luxembourg Institute of Science and Technology (LIST) did the following:

- The institute performed a Bacterial Filtration Efficiency (BFE) on filtration materials and devices designed to protect against biological aerosols, such as face masks, surgical gowns and air filters. As a result, DELTRI+ has achieved a BFE of 99.9 %.
- LIST tested the Viral Load Reduction (VLR) of the filter material following multiple standards. According to ISO10705, adapted to account for an equivalent Coronavirus strain (MS2), the tests show a VLR of 99.21 % after 12 months. According to EN18184, test results prove a VLR of 99.999 % after 1 hour.

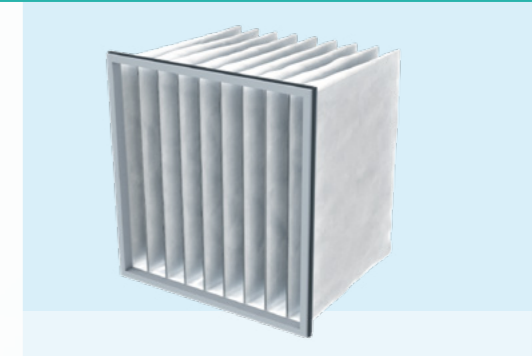
How does the virucidal treatment work in practice?



Virucidal treatment in action



How long does a DELTRI+ filter last?



Third-party tests at LIST show that the filters should last over a commonly recommended filter life cycle prescribed for your type of application and environment, but not longer than one year. We generally recommend shorter replacement cycles – independent from the filter solution.

Will DELTRI+ allow us to reactivate recirculation functions in our AHUs?

In many COVID19 recommendations, including Pacific Ventilation's, it is recommended to turn off recirculation functions in AHUs and switch to 100% fresh air supply mode.

Many building operators and owners have contacted us over the past months as they would like to activate recirculation functions again. First, however, they would like to have the confidence to do so.

Recirculation was utilised in many situations before the pandemic to save energy (e.g., during a low occupancy at night in a building or when CO₂ levels in a room are low). In an intelligent ventilation system, this was "normal" and made sense.

DELTRI+ is a straightforward solution. While high-quality ePM1 filters already help, the DELTRI+ technology offers an additional safety net that enables (partial) recirculation and energy conservation.

Is this filter effective against COVID19?

As tested by the Luxembourg Institute of Science and Technology, DELTRI+ Technology significantly reduces biological aerosols including SARS-CoV-2, making it effective against COVID19. However, the technology's reliability ultimately depends on how well you maintain

your air handling units. DELTRI+ is not a substitute for recommended COVID19 prevention measures, such as wearing masks, increasing ventilation, government mandated capacity limits, social distancing, etc.

Does this solution support us in tackling the potential impact of leakages in heat exchangers?

As confirmed by respected organisations such as ASHRAE and REHVA, an inevitable leakage occurs with rotary and plate heat exchangers. However, in well maintained, designed and operated air handling units, leakage impacts tend to be minimal. Furthermore, in rotors, purge sectors can further minimise leakages.

To date, there is no scientific evidence that SARS-CoV-2 can reach an air handling unit. However, if contamination does occur, quality filtration is vital. DELTRI+ plays an important role going beyond the commonly recommended ISO16890 rated ePM1 filters by providing an additional layer of security and peace of mind for your clients.



#HygenicByDesign

For FAQ and further technical information use
the QR code or pacvent.fans/deltri



We are the safe choice.



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