

# Fellowes

AIR PURIFIERS



CLEAN THE AIR WE SHARE

# The Rapid Global Spread Of Covid-19

has increased our urgency to protect ourselves and each other.  
Healthy and safe facilities matter now, more than ever.



## The Airborne Threat is Real

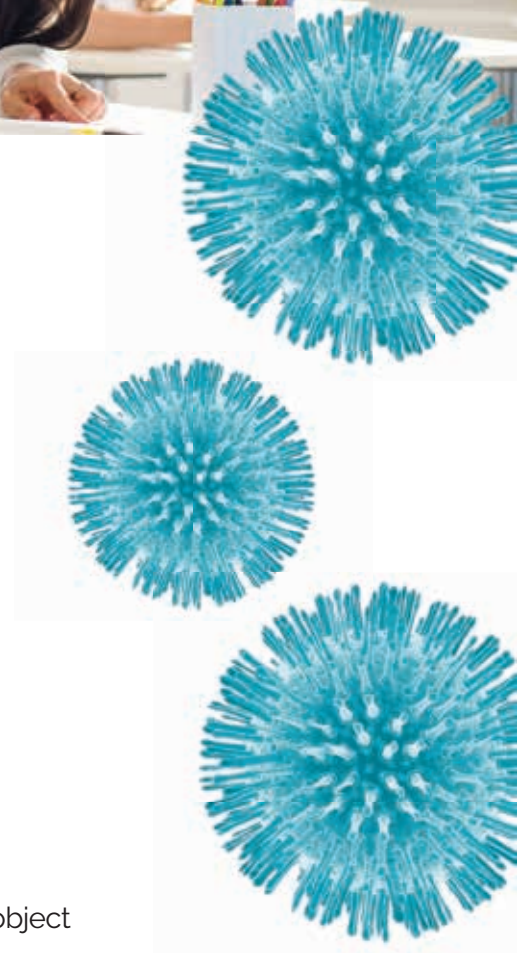
**Global healthcare experts and virologists agree: airborne, aerosol transmission of viruses poses a significant threat.**

- The Centers for Disease Control (CDC) found that COVID-19 can travel up to 4 metres in the air <sup>1</sup>
- The New England Journal of Medicine reported the virus can remain suspended in air for up to 3 hours <sup>2</sup>
- Research in The Netherlands found the typical 2-metre social distancing measurement between people to be ineffective...and recommended spacing of up to 20 metres <sup>3</sup>

## How People are Infected

**Study after study proves there are two transmission routes.**

- A person can become infected through direct contact with a person or object carrying the virus.
- By air, with two transmission methods:
  - Airborne transmission via large droplets (> 10 microns) when people cough or sneeze (1-2 metre)
  - Airborne transmission through small particles (<5 microns) also generated by coughing/sneezing/talking



Sources:

1 [https://wwwnc.cdc.gov/eid/article/26/7/20-0885\\_article](https://wwwnc.cdc.gov/eid/article/26/7/20-0885_article)

2 <https://www.nejm.org/doi/full/10.1056/NEJMc2004973>

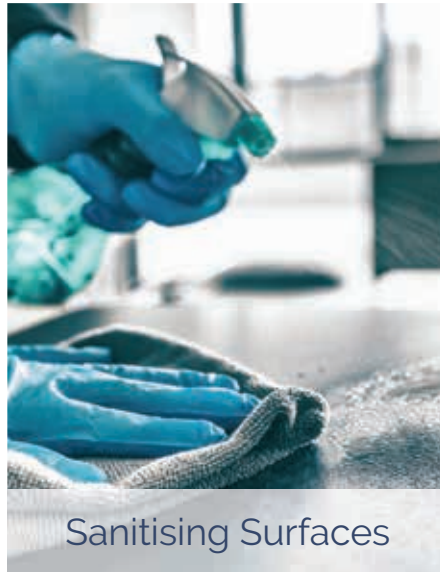
3 <https://medium.com/@jurgenthoelen/belgian-dutch-study-why-in-times-of-covid-19-you-can-not-walk-run-bike-close-to-each-other-a5df19c77d08>

# A Complete Hygiene Solution

A proactive approach must consist of three essential components for protection against virus transmission in shared environments.



Washing Your Hands



Sanitising Surfaces



Cleaning The Air

## We Need to Clean the Air

ASHRAE, the world's largest association dedicated to the subject of ventilation and air quality (HVAC), published a statement regarding transmission of SARS-CoV-2 and the operation of HVAC systems during the COVID-19 pandemic which opened with:

**"Transmission of SARS-CoV-2 through the air is sufficiently likely that airborne exposure to the virus should be controlled."**

## It Doesn't Stop at Viruses

The average person inhales 13,638 litres of indoor air **every day**, with most people spending **90%** of their time indoors and nine hours per day in shared environments-spaces that are up to five times more polluted than outdoors.



Viruses /  
Bacteria



Allergens

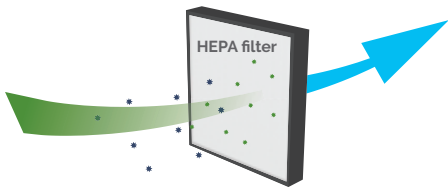


VOCs



Odours

# The AeraMax Pro Difference



## It Starts With Great HEPA Filtration

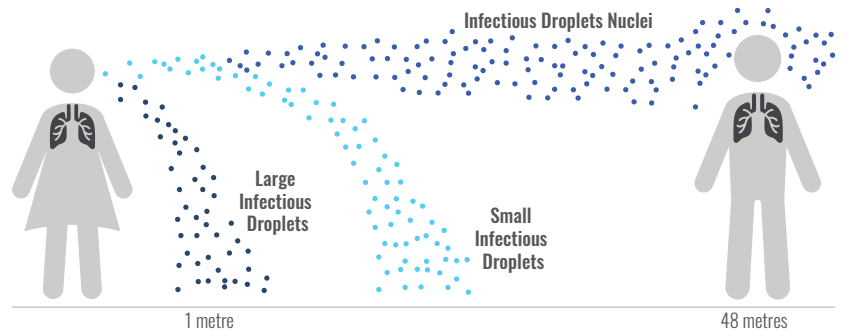
A well-engineered machine is quickly let down if using poor filters. Our True HEPA filters conform to IEST 1.5 HEPA Standard which proves 99.97% at the 0.3 micron size. In addition, our filters can capture more than 97.8% of pollutants at 0.1-0.15 microns, based on IBR Laboratories test data.

## HEPA Stops Filtering Below 0.3 Microns - FALSE

HEPA filters do not work like a sieve. The reality is that HEPA filters can capture ALL particle sizes. Due to the physics of how HEPA filters work (diffusion, interception and impaction), there is often an insignificant drop in filtration efficiency close to 0.3 micron. Filtration efficiency continues at a high % well below this particle size.

## Certified Performance Against Influenza

AeraMax Professional was independently tested and show to remove 99.99% of airborne influenza flu virus within 20-35 minutes of operation.



\* <http://www.cdc.gov/flu/about/disease/spread.htm>



## The Experts Agree

**CDC:** "Consider using portable high-efficiency particulate air (HEPA) fan/ filtration systems to help enhance air cleaning (especially in higher risk areas)."

Source: <https://www.cdc.gov/coronavirus/2019-ncov/community/office-buildings.html>



**ASHRAE:** "Add portable room air cleaners with HEPA or high-MERV filters with due consideration to the clean air delivery rate"

Source: ASHRAE Position Document on Infectious Aerosols (April 2020)

# Why AeraMax Pro



**EFFECTIVE**  
Proven Performance

**INTEGRATED**  
A Seamless Addition

**SMART**  
Patented, Responsive  
Technology

**RELIABLE**  
Commercial Grade  
Durability

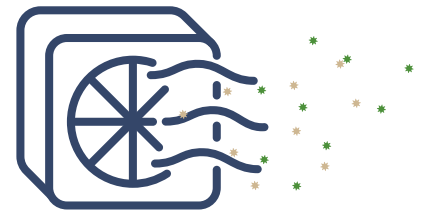
# Why Localised Air Purification Systems?

## HVAC systems recirculate

**HVAC systems work because they recirculate air<sup>1</sup>. But they don't do a thing about cleaning the air.** Filters can trap very large particles, but things like volatile organic compounds (VOCs), germs, bacteria and allergens pass right through typical HVAC filters. That doesn't alleviate the problem of poor air quality inside buildings.

Installing HEPA filters in existing HVAC systems won't improve building air quality. HEPA filters designed specifically for HVAC systems are bulky, and while they do a better job of trapping germs in the direct area near the intake, these thick filters drag down HVAC efficiency, significantly reducing airflow. HVACs need to work harder, break down more often and still not solve the poor air quality problem. Lastly, the modifications to existing HVAC systems do nothing for areas that aren't near intakes.

Most importantly, **HVAC systems spread germs farther and faster through recirculation<sup>2</sup>. In essence, HVAC systems are air movers, not air improvers.** There just isn't enough efficiency in HVAC systems, because they are designed first and foremost to push air throughout buildings.



HVAC systems spread dust and other contaminants farther and faster through recirculation. **In essence, HVAC systems are air movers, not air improvers.**

## For improvement in IAQ, focus on cleaning instead of moving the air



This can be done by installing air purifiers AeraMax Pro. These commercial-grade systems use hospital-type True HEPA filtration to effectively, quickly and efficiently remove 99.97 percent of airborne contaminants, like germs, bacteria, smoke, odours, allergens and VOCs, from indoor air. The four-stage filtration systems work automatically, because the units sense when poor air is present, adjusting to remove the bad air.

AeraMax Pros variety of units to accommodate a variety of room sizes—and even have portable units so specific areas can be targeted on the fly, by moving the purifier into offending areas.

### Sources:

1 Science Direct; Engineering; Recirculated Air. <https://www.sciencedirect.com/topics/engineering/recirculated-air>

2 National Research Council. Green Schools: Attributes for Health and Learning. Washington, DC: The National Academies Press. <https://doi.org/10.17226/11756>.

# Clean Air, Cleaner Schools



## Protect Against Viruses

Students are more likely to contract viruses from the air. AeraMax Professional captures airborne germs and viruses to help protect students from getting sick and becoming absent.

## Complete Germ Protection

Complement existing hand sanitisation, hand washing programmes and daily surface cleaning and with air cleaning to removes the harmful viruses and germs that students and staff inhale.

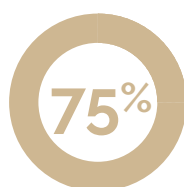
## Improved Concentration & Performance

Improved indoor air quality increases productivity and improves mental tasks such as concentration and recall in both adults and children.

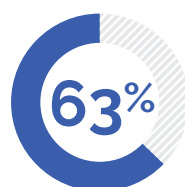
## Support Sustainability

AeraMax Professional removes harmful airborne contaminants from the air without the usage of harsh chemicals, solutions or toxins. Smart technology minimises electricity consumption and extends filter life.

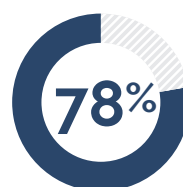
How likely would having an air purifier give you the following impressions?



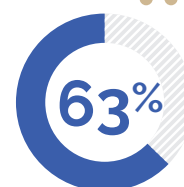
Would be **CLEANER**



Would be **SAFER**



Would show **CARE & CONCERN**



Would be **PREFERRED** Facility



To learn more about AeraMax Pro products, watch testimonials from fellow education facilities managers.

For a full list of our 18 global locations, visit [aeramaxpro.com/locations](https://aeramaxpro.com/locations)



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SINCE 1917