

Fellowes
AIR PURIFIERS

EDUCATION
SOLUTIONS



The Airborne Threat is Real

Reopening safely begins with responsible steps to protect ourselves and each other. COVID-19 spreads in the air when we speak, laugh, cough, and sneeze. Now more than ever, your protective efforts must include safeguarding what people breathe. Fellowes can help!



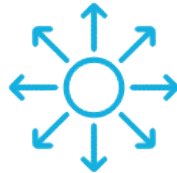
COVID-19 IS AN AIRBORNE THREAT

Experts agree: using air purifiers with true HEPA filtration reduces the threat of transmission



"The virus can remain suspended in the air for up to 3 hours"

New England Journal of Medicine



"Respiratory aerosols can accumulate indoors in rooms with low ventilation or poor filtration"

Lancet COVID-19 Commission, March 2021



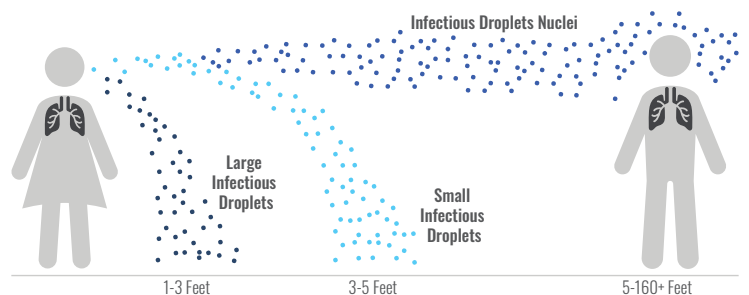
"Portable HEPA air cleaners can reduce exposure to simulated SARS-CoV-2 aerosols in indoor environments"

CDC, July 2021

How People are Infected

Study after study proves viruses can be spread through air via two transmission methods.

- Airborne transmission via large droplets (> 10 microns) when people cough or sneeze (3-6ft risk)
- Airborne transmission through small particles (<5 microns) also generated by coughing/sneezing/talking



REMOVES OVER 99.99% OF COVID-19[†]

In a recent test, Fellowes AeraMax Pro AM3 & AM4 air purifiers demonstrated to eliminate COVID-19[†], using a combination of smart and integrated technologies—only from Fellowes.

The AeraMax Pro AM3 and 4 air purifiers were evaluated in extreme laboratory operating conditions, certainly much more critical and difficult than the real environmental situation. This situation was purposely designed since it is necessary to test the effectiveness of similar sanitizing devices in critical conditions to guarantee their effective performance. Despite the extreme conditions used, the Fellowes air purification technology was able to neutralize the airborne viral load.

Additionally, SARS-CoV-2 mutations do not affect the dynamics of its spreading by aerosol particles. As the particulate would remain the same size **regardless of the variant**, this testing demonstrates AeraMax AM3 & AM4 effectively removes over 99.99% of aerosolized COVID-19 particles.

—Alberto Izzotti, MD, PhD

Full Professor of Hygiene, Preventative Medicine, and Public Health
Department of Experimental Medicine at University of Genoa,
School of Medicine, where the Fellowes test was conducted.



Fellowes continues to illustrate the effectiveness of the AeraMax Pro line of commercial air purifiers by utilizing independent testing and third-party standards to prove our performance. Fellowes is committed to expanded testing with fully accredited and independent labs.

» Go to our Research page for more details at [Fellowes.com/air](https://www.fellowes.com/air)

†Fellowes AeraMax Pro AM3 & AM4 air purifiers demonstrated, through independent laboratory testing, to be effective in eliminating aerosolized concentration of SARS-CoV-2 by 99.9999% through a single air pass test of the purifier. In addition, AeraMax Pro air purifiers reached 99.99% airborne reduction of a surrogate Human Coronavirus 229E in a 20m3 test chamber within 1 hour of operation in a separate test.

UNIVERSITA' DEGLI STUDI DI GENOVA
DIPARTIMENTO DI MEDICINA SPERIMENTALE

Product description: Fellowes AeraMax Pro AM3
Manufacturer: Fellowes
Type of air filter: HEPA (High Efficiency Particulate Arresting) with an additional layer of activated carbon for odour reduction. The HEPA filter is made of polypropylene fibers with a depth of 1.5cm. The activated carbon is made of coconut shells and is 1.5cm thick.

Test Method: The test was conducted using the real aerosol through the purifier. The test chamber was sealed, ensuring the reference viral load by cell culture and suitable PCR analysis.

RESULTS

This experiment demonstrates that the Fellowes AeraMax Pro AM3 air purifier was able to completely neutralize the airborne viral load of SARS-CoV-2. In the experiment, the value of the PCR cycle termed negative compared to the non-purified sample, which had a value of 20.

Therefore, the Fellowes AeraMax Pro AM3 air purifier is able to eliminate 99.9999% of the aerosolized SARS-CoV-2, with the air passing through the purifier a single time.

Genoa 07/23/2021
Prof. A. Izzotti, MD, PhD
Full Professor of Hygiene and Preventive Medicine, School of Medicine, Department of Experimental Medicine, University of Genoa

SARS-CoV-2

Fellowes AeraMax Pro AM3 & AM4 air purifiers demonstrated, through independent laboratory testing, to be effective in eliminating aerosolized concentration of SARS-CoV-2 by 99.9999% through a single air pass test of the purifier.

Test Summary

The following products have been tested by Shanghai WEIPU Chemical Technology Service Co., Ltd as outlined in report(s): WP-20121885-SC-0201; WP-20121885-SC-0202; WP-20121885-SC-0203; WP-20121885-SC-0204; WP-20121885-SC-0205; WP-20121885-SC-0206

Product Description: AeraMax Pro
Manufacturer: Fellowes
Test specification: Technical specification for disinfection (2002) 2.3.3
Test Method: Determination of removal efficiency of HCoV-229E following aerosolization of the virus into a 20m³ environmental test chamber. The device operated at max speed and sensor ON during test.

Additional SKUs: AeraMax Pro

DATA

The table below shows the test summary based on the tested products with the highest removal rates.

Report No.	Product	With the Filter	Removal Activity Rate (%)
WP-20121885-SC-0201	AeraMax Pro AM3	Hybrid Filter	>99.99%
WP-20121885-SC-0202	AeraMax Pro AM3/PC	Pre-Filter-Carbon/Filter-HEPA Filter	>99.99%
WP-20121885-SC-0203	AeraMax Pro AM3/PC	Pre-Filter-Hybrid Filter	>99.99%
WP-20121885-SC-0204	AeraMax Pro AM4/PC	Pre-Filter-Carbon/Filter-HEPA Filter	>99.99%
WP-20121885-SC-0205	AeraMax Pro AM4/PC	Pre-Filter-Hybrid Filter	>99.99%

Shanghai WEIPU Chemical Technology Service Co., Ltd
Building 9, building 10, building 11, Yangpu Urban Industrial Park, Lane 105, Guoding Road, Yangpu District, Shanghai (200430) www.weipugroup.com

CORONAVIRUS

Fellowes AeraMax Pro air purifiers were demonstrated through independent laboratory testing to be effective in reducing aerosolized airborne concentrations of a surrogate Human Coronavirus 229E in a 20m3 test chamber within 1 hour of operation.

TEST CERTIFICATE

airmid
airmidgroup.com

The following products have been tested by airmid healthgroup ltd as outlined in report(s): A000000204

Product Description: AeraMax Pro AM3
Manufacturer: Fellowes
Certificate Number: AISC-20210104/06/0306/01
Validated Period: 1 Year
Outline of Test Method: Determination of removal efficiency of influenza A (H3N2) following aerosolization of the virus into a 20m³ environmental test chamber.
Additional SKUs: AeraMax Pro AM3/PC, AM3/PC, AM4/PC

RESULTS

The Fellowes AeraMax Pro has been shown to remove 99.99% of airborne virus within 35 minutes of operation.

This experiment demonstrates that the Fellowes AeraMax Pro AM3 air purifier was able to completely neutralize the airborne viral load of H1N1. In the experiment, the value of the PCR cycle termed negative compared to the non-purified sample, which had a value of 20.

Therefore, the Fellowes AeraMax Pro AM3 air purifier is able to eliminate 99.9999% of the aerosolized H1N1, with the air passing through the purifier a single time.

Shanghai WEIPU Chemical Technology Service Co., Ltd
Building 9, building 10, building 11, Yangpu Urban Industrial Park, Lane 105, Guoding Road, Yangpu District, Shanghai (200430) www.weipugroup.com

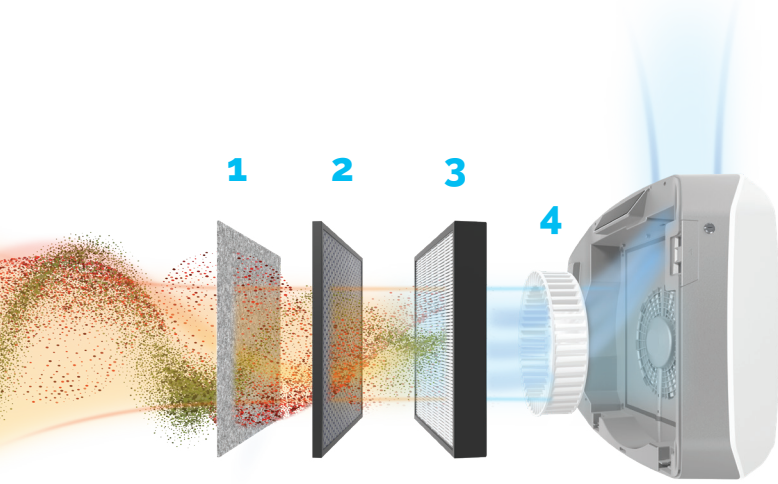
H1N1

The Fellowes AeraMax Pro AM3 and AM4 air purifiers have been shown to remove 99.99% of airborne virus within 35 minutes of operation.

The AeraMax Pro Difference

It Starts With Great HEPA Filtration

A well-engineered machine is quickly let down if using poor filters. Our AeraMax Pro AM3 and AM4 units with H13 True HEPA filters capture at least 99.95% of particles as small as 0.1 microns, including allergens, such as pollen, dust, pet dander, and smoke.



The four stage filtration process:

1. **Pre-Filter** captures large particles
2. **Active Carbon** filtration adsorbs odors and VOCs from the air
3. **H13 True HEPA filter** captures up to 99.95% of particles as small as 0.1 microns
4. **PlasmaTrue™ Bipolar Ionizer** improves the capture efficiency of the particulate filter

Localized Air Purification Benefits Beyond COVID-19

Indoor Air is
2-5x
DIRTIER
than Outdoor Air



Bacteria

Despite flu shots and hand sanitization, Americans still catch about one billion colds and 60 million flu cases annually.



Allergens & Asthma Triggers

Approximately 20% of all people are impacted with allergies.

Asthma impacts 1 out of every 10 children.



Odors

The presence of odors can reflect negatively on your facility.

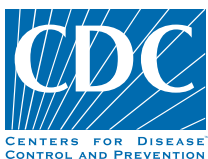
Odors from bathrooms, lunchrooms, stale air and more are primary complaint drivers for building managers.



Pollution & Volatile Organic Compounds (VOCs)

Paints, cleaning supplies, office equipment and more can contain VOCs that can travel deep into the lungs and cause lasting damage.

Effects of smoke in the air (such as wildfire and cigarette smoke) include coughing, irritated sinuses, chest pains, fatigue, and shortness of breath.



The Experts Agree

Use portable high-efficiency particulate air (HEPA) fan/filtration systems to enhance air cleaning" —CDC 6.2.21

<https://www.cdc.gov/coronavirus/2019-ncov/community/ventilation.html>

Why AeraMax Pro

Smarter Air Purifiers

A unique combination of patented technologies provides superior performance



SMART

Works hard when it needs to, and shifts to standby when possible, saving energy and extending filter lifespan.



RELIABLE

Built with 24/7/365 operation in mind. That means continual use...and that means they're constructed with superior components, high-grade filters and reinforced housings.

EFFECTIVE

Built-in display shows real time air quality status.



INTEGRATED

Wall-mount designed for seamless integration in any space. Floor stand option for quick and flexible integration.

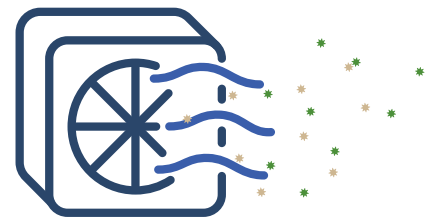
Why Localized Air Purification Systems?

HVAC systems recirculate

HVAC systems work because they recirculate air¹. 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 recirculation². 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. These commercial-grade systems use H13 True HEPA filters (AM3 and AM4) captures up to 99.95% of particles as small as 0.1 microns. AeraSafe™ antimicrobial treatment applied to the True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan. The four-stage filtration systems work automatically, because the units sense when poor air is present, adjusting to remove the bad air.

AeraMax Pro's variety of units can 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>.

The Most Prepared Schools Have Fellowes



Protect Against Viruses

Classrooms and lecture halls are essential areas for virus protection where students might not be able to properly social distance, and conversation is key to learning. Air purification helps remove these concerns around student and staff safety, while also benefiting lungs by eliminating allergens and odors.

Support Sustainability

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

Simple Maintenance

Fellowes AeraMax Pro units' simple maintenance and filter change give staff peace of mind and limits maintenance time needed by facilities staff. The units identify when the filters need to be changed and do not require interim cleaning.

The Preferred Choice

Fellowes has been selected for over 250,000+ air purifiers into schools across 45 states in the US—helping educators, students and administrators to safely return to on-site learning.

Improved Concentration & Performance

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



To learn more about AeraMax® Pro products, watch customer testimonials and get further technical information and more visit us at [fellowes.com/air](https://www.fellowes.com/air) or call **1-800-477-7940**

Fellowes
Brands™

FAMILY BUSINESS
SINCE 1917