

Fellowes®

PURIFICATEURS D'AIR

TEST Sars-CoV2

Résumé des résultats des tests certifiés

Octobre, 2021



Déclaration des résultats des tests certifiés Sars-CoV2

Déclaration Approuvée

Elimine plus de 99.99% de la Covid-19[†]

Déclaration de soutien scientifique approuvée en date du 29.09.21

[†] Les purificateurs d'air AeraMax Pro AM3 et AM4 de Fellowes ont démontré, par le biais de tests en laboratoire indépendant, leur efficacité à éliminer la concentration du SRAS-CoV-2 en suspension de 99,9999 % lors d'un test de passage unique du purificateur. De plus, les purificateurs d'air AeraMax Pro ont atteint une réduction de 99,99 % de la concentration en aérosol d'un substitut du Coronavirus humain 229E dans une chambre d'essai de 20m³ en une heure de fonctionnement lors d'un test séparé.

Résumé du test Coronavirus Covid-19

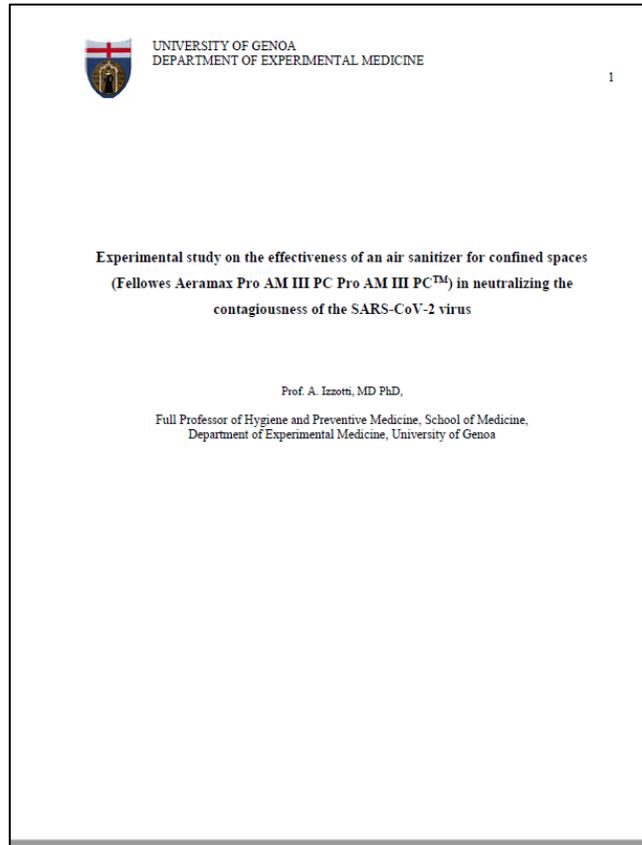
- Fellowes s'est associé au professeur A. Izzotti, de l'École d'Hygiène et de Médecine Préventive de l'Université de Gênes, en Italie.
- L'étude expérimentale est portée sur l'efficacité de l'AeraMax Pro à capturer et neutraliser le virus SARS-CoV-2.
- Les tests ont été réalisés avec des particules de SARS-CoV-2 en suspension dans l'air.
- Les particules en suspension ont été canalisées directement dans l'entrée de AM PRO III PC et les particules ont été mesurées à la sortie pour mesurer le pourcentage de capture à 99,9999 %.
- Des tests d'essuyage ont été effectués dans les 5 minutes suivant la fin du test sur le filtre HEPA, le cadre du filtre et le pré filtre pour vérifier qu'ils ont joué un rôle dans le capture du virus.
- La méthodologie complète du test est disponible ainsi que les rapports de test du laboratoire.

Méthodologie du test

- Des échantillons de prélèvement de gorge contenant le virus sauvage viable du SRAS-CoV-2 ont été utilisés pour générer des aérosols et des gouttelettes (aérosols). Cet aérosol reproduit donc le vecteur des virions infectants.
- Des échantillons contenant des charges élevées de virus sauvage du SRAS-CoV-2 ont été utilisés pour générer des aérosols diffusibles dans l'air, canalisés dans un flux d'air. L'aérosol généré a été acheminé par des tubes en plastique flexible vers l'échantillonneur à bulles.
- La capacité de l'AeraMax Pro AM III PC de Fellowes examiné à réduire la charge virale en suspension dans l'air contenue dans l'aérosol généré a été testée. Le flux d'aérosol a été canalisé dans les buses d'aspiration de l'appareil. L'air émis à ensuite été recueilli dans un sac placé de manière à couvrir et à sceller les bords de l'AM III PC entourant les grilles d'émission de l'air traité. Le sac a été dégonflé avec le dispositif éteint et gonflé avec le dispositif en fonctionnement, permettant ainsi un contrôle direct de l'émission correcte du flux d'air traité par l'instrument.
- De plus, l'appareil a été ouvert et des échantillons des deux filtres ont été prélevés par excision, à l'aide d'un scalpel. Les charges virales sur les filtres ont été collectées par un test d'essuyage immédiatement après la fin des expériences, c'est-à-dire dans les 5 minutes suivant l'extinction des instruments.
- Le test effectué a permis de constater que l'AeraMax Pro AM III PC est capable de décomposer complètement une charge virale aérienne même très élevée de virus sauvage SARS-CoV-2, en un seul passage d'air.

Nos rapports de test

Rapport Complet



Résumé du test



UNIVERSITA' DEGLI STUDI DI GENOVA
DIPARTIMENTO DI MEDICINA SPERIMENTALE

Product description	Fellowes AeraMax Professional AMS
Settings	Manual mode, speed 5, ionizer OFF
Manufacturer	Fellowes
Type of test	Experimental study on the effectiveness of an air purifier for confined environments (Fellowes AeraMax Professional™) in neutralizing the contagiousness of the SARS-CoV-2 virus
Methodology	Producing a viral aerosol, passing the viral aerosol through the purifier, collecting samples and evaluating the infectious viral load by cell culture and molecular PCR analysis

NOI THRESHOLD

20.0 +/- 0.45

39.9 +/- 0.28

TFPaerosol + Gorg

TFPaerosol + AeraMax + Gorg

Log fold decrease >6
2e20= 1,048,576

RESULTS

This experiment demonstrates that the Fellowes AeraMax Pro AM 3 air purifier was able to completely neutralize the airborne viral load of SARS-CoV-2. In the experiment, the value of the PCR cycle turned negative compared to the non-purified sample, which had a value of 20.

Therefore, the Fellowes AeraMax Pro AM 3 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

Prof. ALBERTO IZZOTTI
MEDICO CHIRURGO
19711494



Accreditations du laboratoire de l'Université de Gênes

Les certificats ISO pour IAF 37 et 38 qui indiquent l'accréditation pour les instructions, pour la santé et les soins.

En complément, ce laboratoire fait partie d'un centre universitaire de diagnostic et de recherche. Le laboratoire est de classe BSL 3 permettant d'effectuer ces tests et les certifications, conformément aux règles du Service sanitaire italien (ISS).



CERTIFICATO N. OHS-4459
CERTIFICATE No.

Di certifica che il Sistema di Gestione della Sicurezza e della Salute sul luogo di lavoro è
it is hereby certified that the Occupational Health and Safety Management System of

IRCCS OSPEDALE POLICLINICO SAN MARTINO

LARGO ROSANNA BENZI 10 16132 GENOVA (GE) ITALIA
nelle seguenti unità operative / in the following operational units

LARGO ROSANNA BENZI 10 16132 Genova (GE) ITALIA

è conforme alla norma / is in compliance with the standard
ISO 45001:2018
per le seguenti attività / for the following activities

Sviluppo ed erogazione di servizi di diagnosi e cura in regime ambulatoriale ordinario ed in urgenza. Attività di ricerca in ambito oncologico ed universitario. Progettazione ed erogazione di attività formative.

DEVELOPMENT AND PROVISION OF DIAGNOSTIC AND CARE SERVICES IN ORDINARY OUTPATIENT REGIME AND IN URGENCY. RESEARCH ACTIVITIES IN THE ONCOLOGICAL AND UNIVERSITY FIELD. DESIGN AND DELIVERY OF TRAINING ACTIVITIES.

La validità del presente certificato è subordinata a sorveglianza periodica annuale / annually ed al riesame completo del sistema di gestione con periodicità triennale
The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management system
L'uso e la validità del presente certificato è soggetto al rispetto del documento RINA. Regolamento per la Certificazione del Sistema di Gestione della Sicurezza e della Salute sul luogo di lavoro
The use and validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Occupational Health and Safety Management Systems

Prima emissione / First Issue	26.08.2021	Organizzazione con sistema di gestione certificato da / Organization with Management System certified since:	13
Data scadenza / Expiry Date	12.10.2021	Revisione / Revision date	26.08.2021

Jacopo Ferrando
Genoa & Milan Management System Certification, Head





SCR N° 003 F
RINA Services S.p.A.
Via Corsica 12 - 16129 Genova Italy

CISQ è la Federazione Italiana di Organismi di Certificazione del sistema di gestione secondo ISO 9001, ISO 14001 e ISO 45001
CISQ is the Italian Federation of management system Certification Bodies



CERTIFICATO N. 41781/21/S
CERTIFICATE No.

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
IT IS HEREBY CERTIFIED THAT THE QUALITY MANAGEMENT SYSTEM OF

IRCCS OSPEDALE POLICLINICO SAN MARTINO

LARGO ROSANNA BENZI 10 16132 GENOVA (GE) ITALIA
NELLE SEGUENTI UNITÀ OPERATIVE / IN THE FOLLOWING OPERATIONAL UNITS

LARGO ROSANNA BENZI 10 16132 Genova (GE) ITALIA

È CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD
ISO 9001:2015

PER I SEGUENTI CAMPI DI ATTIVITÀ / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES

Sviluppo ed erogazione di servizi di diagnosi e cura in regime ambulatoriale ordinario ed in urgenza. Attività di ricerca in ambito oncologico ed universitario. Progettazione ed erogazione di attività formative.

DEVELOPMENT AND PROVISION OF DIAGNOSTIC AND CARE SERVICES IN ORDINARY OUTPATIENT REGIME AND IN URGENCY. RESEARCH ACTIVITIES IN THE ONCOLOGICAL AND UNIVERSITY FIELD. DESIGN AND DELIVERY OF TRAINING ACTIVITIES.

La validità del presente certificato è subordinata a sorveglianza periodica annuale / annually ed al riesame completo del sistema di gestione con periodicità triennale
The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management system
L'uso e la validità del presente certificato è soggetto al rispetto del documento RINA. Regolamento per la Certificazione del Sistema di Gestione per la Qualità
The use and validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Quality Management Systems

Prima emissione / First Issue	25.08.2021	Organizzazione con sistema di gestione certificato da / Organization with Management System certified since:	28/12/2012
Data scadenza / Expiry Date	26.12.2021	Data revisione / Revision date	25.08.2021

Jacopo Ferrando
Genoa & Milan Management System Certification, Head

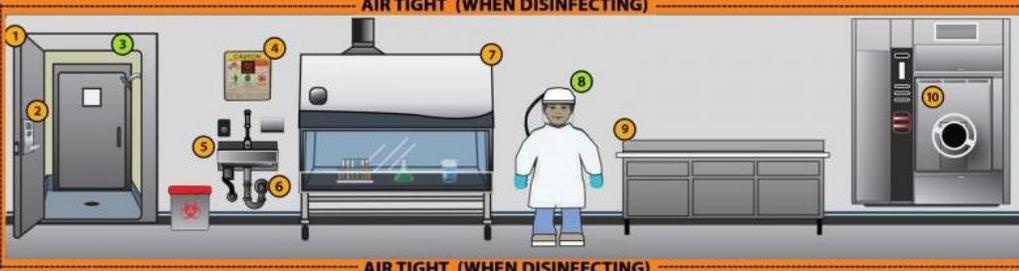




SSQ N° 002 A
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Via Corsica 12 - 16129 Genova Italy

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BSL3 (WITH RISK-BASED ENHANCEMENTS)



AIR TIGHT (WHEN DISINFECTING)



BSL3

- 1 self-closing double-door access
- 2 controlled access
- 3 personal shower out
- 4 sharp hazards warning policy
- 5 hand washing sink
- 6 sealed penetrations
- 7 physical containment device
- 8 powered air purifying respirator
- 9 laboratory bench
- 10 autoclave
- 11 HEPA filter
- 12 effluent decontamination system

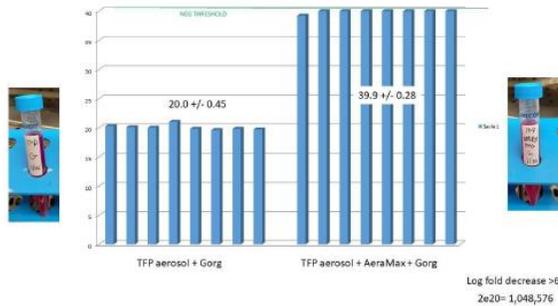
Fellowes s'engage à étendre ses tests avec des laboratoires indépendants et certifiés

SARS-CoV-2



UNIVERSITA' DEGLI STUDI DI GENOVA
DIPARTIMENTO DI MEDICINA SPERIMENTALE

Product description	Fellowes AeraMax Professional AM3
Settings:	Minimal mode, speed 5, ionizer OFF
Manufacturer	Fellowes
Type of test	Experimental study on the effectiveness of an air purifier for confined environments (Fellowes AeraMax Professional TM) in neutralizing the contagiousness of the SARS-CoV-2 virus
Methodology	Producing a viral aerosol, passing the viral aerosol through the purifier, collecting samples and evaluating the infectious viral load by cell culture and molecular 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 turned 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

Prof. ALBERTO IZZOTTI
MEDICO CHIRURGO
1971-1994

Elimine plus de 99.99% de la Covid-19

† Les purificateurs d'air AeraMax Pro AM3 et AM4 de Fellowes ont démontré, par le biais de tests en laboratoire indépendant, leur efficacité à éliminer la concentration du SRAS-CoV-2 en suspension de 99,9999 % lors d'un test de passage unique du purificateur.

Existing Test Reports

CORONAVIRUS*

Test Summary

The following product has been tested by Shanghai WEIPU Chemical Technology Service Co., Ltd as outlined in report: WP-21036198-JC-01En.

Product Description
AeraMax Pro

Manufacturer
Fellowes

Test specification
Technical specification for disinfection (2002) 2.1.3

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 ionizer ON during test.

Additional SKUs
AeraMax Pro AM3S PC

RESULTS
The AeraMax Pro air purifier product was demonstrated to achieve 99.99% airborne virus reduction within the first hour of operation at the highest air flow rate. The below table shows the test summary based on the tested product with the installed filters.

Unit	AeraMax Pro AM3S PC	
Filters	Pre-Filter+Carbon filter+HEPA filter	
Time	Natural Extinction Rate (%)	Antiviral Activity Rate (%)
20min	0.96	95.70
40min	1.92	99.05
60min	2.32	> 99.99

Shanghai WEIPU Chemical Technology Service Co., Ltd
Building 9, building 10, building 18, Yanqiu Urban Industrial Park, Lane 139, Guowei Road,
Yangpu District, Shanghai (200438) www.weipugroup.com

H1N1**

TEST CERTIFICATE

Independently tested by
airmid
healthgroup.com

The following products have been tested by airmid healthgroup Ltd as outlined in report(s) ASCR02102v3

Product Description
AeraMax Pro AM3

Manufacturer
Fellowes

Certification Number
JHGC: 92102/15/05/08/2000/01

Validation Period
1 Year

Outline of Test Method
Determination of removal efficiency of Influenza A [H1N1] following aerosolization of the virus into a 20 m³ environmental test chamber.

Additional SKUs
AeraMax Pro AMB3, AM3S PC, AM3S PC
AeraMax Pro AMV, AMV5, AM4 PC, AM4S PC

RESULTS
The Fellowes AeraMax Pro has been shown to remove 99.9% of airborne virus within 35 minutes of operation.

Dr Bruce Mitchell
Chairman/CEO
airmid healthgroup Ltd

Dated
16 MAY 2021

airmid healthgroup Ltd

*Fellowes AeraMax Pro air purifiers were demonstrated through independent laboratory testing to be effective in reducing aerosolized airborne concentration of Human Coronavirus 229E in a test chamber, reaching 99.99% airborne reduction within 1 hour of operation.

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