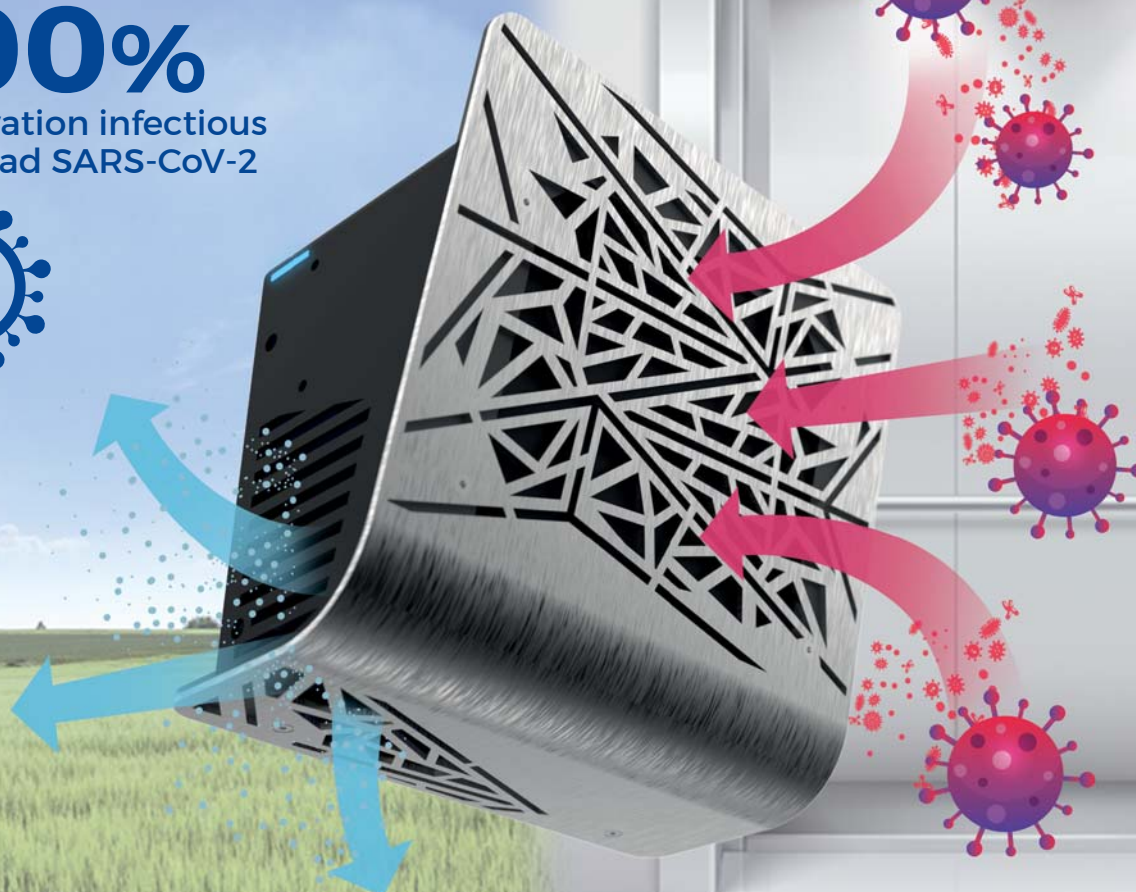


ESPERO 100 LIFT CLEAN AIR

The only air sanitizer system
inside the lift cabin, **TESTED**
AGAINST COVID-19

100%

inactivation infectious
viral load SARS-CoV-2



NPCO-WO3 «KtV» CLEAN AIR

ESPERO 100 LIFT is the **CERTIFIED solution** to sanitize the air
inside the lift cabin, successfully tested by **San Raffaele Milan Hospital**.

The Problem

The recent pandemic of COVID-19 (SARS-CoV-2) has alerted us to the necessity for higher indoor air quality. Protection and prevention are of great concern to our health to prevent and reduce the spread of this epidemic.

Elevators are frequently used and have a limited amount of space.

This problem makes it easy for the contagion to spread among people.

The Solution

ESPERO 100 LIFT CLEAN AIR treats the incoming air with a catalytic reactor. The air flows through a dust filter and then comes into contact with the NPCO filter illuminated by visible LED white light. A chemical-physical reaction of the NPCO (Nano Photocatalytic Oxidation) sanitizes the air and is then released through an anti-odor filter. The technology is supported and documented by scientific evidence against the Sars-Cov-2 virus.

MADE IN ITALY

www.firstlift.it

 **FIRST LIFT**
components

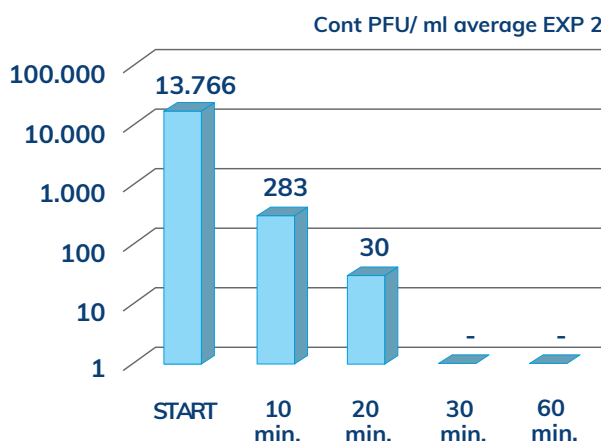
100% deactivation SARS-CoV-2 virus

NPCO Sanitizing tested by San Raffaele Hospital

The test was carried out at Research Institute San Raffaele - Viral Pathogenesis and Biosecurity Unit.

The device used for the test is a **PATENTED NanoHub filtration system NPCO-W03 <KtV>** composed of a **photocatalyst reactor** on which a WO₃-based photocatalyst is deployed in combination with a special germicidal filter.

The data shows that in 10 minutes the infectious viral load of SARS-CoV-2 was inactivated by over 98.2%, at 20 minutes by over 99.7%. After 30 minutes the virus was inactivated to 100%.



The advantages of ESPERO 100 LIFT Clean Air

- **Effective process:** kills bacteria, viruses and pollutants in the air! (destruction & decomposition of microorganisms)
- **Safe process:** harmless to humans and animal (safe for inhalation, no UV light used)
- **Clean process:** no pathogenic residues (only harmless CO₂ and H₂O are formed by the photocatalytic reaction)
- **100% deactivation SARS-CoV2 virus**
- **NPCO (Nano Photocatalytic Oxidation):** instant & efficient elimination of volatile microorganisms present in the air
- **Atmospheric particulates:** elimination of PM 2,5 and PM10 pollutants
- Reduced maintenance
- Reduced power consumption

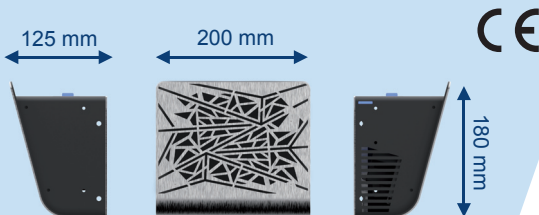
Comparison with other sanitizing technologies

	HePa Filters	Electrostatic	Ozono	UV	Ionization	Photocatalysis
molds	Mediocre	Good	Good	Good	Mediocre	Excellent
bacteria & viruses	Mediocre	Mediocre	Good	Good	Mediocre	Excellent
acarus	Mediocre	Mediocre	Mediocre	Good	Mediocre	Excellent
gases	Mediocre	Mediocre	Good	Good	Mediocre	Excellent
smells	Mediocre	Good	Good	Good	Good	Excellent
smoke	Good	Good	Good	Mediocre	Excellent	Good
VOC	Mediocre	Mediocre	Good	Good	Mediocre	Excellent

Riferimento: Keith Ho, "Development of Advanced Catalytic Oxidation Technology for Air Pollution Control", in knowledge Transfer Conference, Hon Kong 11/8-9/2010

technical data

- Nominal Air Flow: 100 m³/h
- Consumption: 18W (at fan max speed)
- Maximum Power: 24 V/AC-DC
- Technology: «KtV» NPCO-WO₃
- Light source: LED visible white light
- Avg LED duration: 40.000 h
- CE Certificate: classe 1 medical device



NanoHub patented photocatalysis filter. Product developed by FuEI



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