

## CONTRIBUTING TO A SAFER ELEVATOR RIDE

KONE Elevator AirPurifier provides cleaner, fresher air inside the elevator car by using PCO™ (Photocatalytic Oxidation) air cleaning technology to reduce impurities.

### How does it work?

KONE Elevator AirPurifier is discreetly located in the elevator ceiling structure. A centrifugal fan draws the air into the air purifier. The air first flows through a polyester filter which retains dust and other larger particles. A fan then pushes the air through a catalyzer. In the catalyzer, UV light combined with a photocatalysis reaction creates oxidizers, which reduce viruses, bacteria, odors, air pollutants, VOCs (chemical odors), smoke and mold in the air. Purified air is then returned to the elevator car.

## IMPROVING ELEVATOR AIR QUALITY FOR PASSENGERS

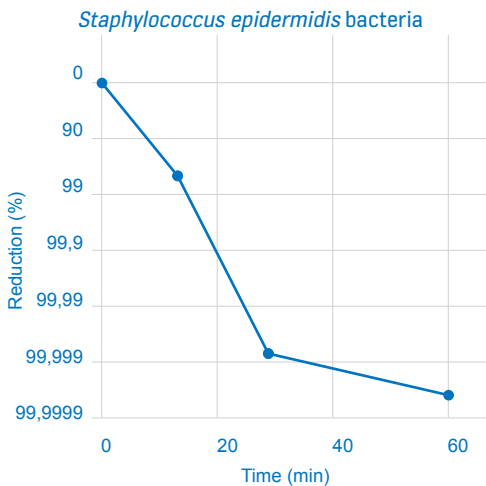
KONE Elevator AirPurifier

### KEY BENEFITS

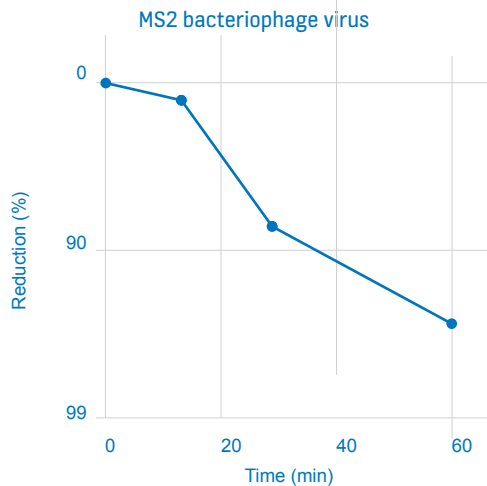
- Enhanced passenger experience
- Reduced air impurities
- Chemical-free cleaning
- Quick and easy to install

FEATURE	DESCRIPTION	
Ventilation factor	Airflow is up to 39 m3/h.	Air passes through the KONE Elevator AirPurifier up to 12 times/hour in a reference car size 1100mm x 1400mm x 2100mm.
Photocatalyst reaction	The photocatalyst reaction generates hydrogen peroxide in small quantities (below 0.02 PPM).	The photocatalyst reaction is effective in reducing the microbial load in the air.
Patented PCO™ (Photocatalytic Oxidation) Dust Free	The Dust Free module (UV lamp + catalyzer) generates natural hydroxyl radicals. Those hydroxyl radicals are able to destroy most pollutants in the air.	The hydroxyl radicals are able to destroy most pollutants in the air.
Maintenance and repairs	Regular maintenance includes for example replacement of the filter and UV lamp. The expected lifetime at 100% performance is 5 years when maintained according to the instructions.	As any technical solution, in order to work efficiently, the solution needs to be maintained and replaced at the end of its effective lifetime.
Compatibility	KONE Elevator AirPurifier is generic solution and can be applied to any elevator type with following limitations: <ul style="list-style-type: none"> <li>at least 70 mm gap between the suspended ceiling and the car roof</li> <li>at least about 20-25 mm gap between the ceiling panels and side/back walls</li> </ul>	Placement of the KONE Elevator AirPurifier might be affected by the design of the ceiling (position and size of spotlights or lamps) and the car roof.

Reduction of bacteria and viruses in an elevator equipped with KONE Elevator AirPurifier has been tested against *Staphylococcus epidermidis* bacteria and the MS2 bacteriophage virus. MS2 is typically used as a surrogate for human viral pathogens such as norovirus and coronavirus in disinfection efficacy tests.



In elevator equipped with KONE Elevator AirPurifier, more than 99.99% of *Staphylococcus epidermidis* bacteria is reduced in 30 minutes.

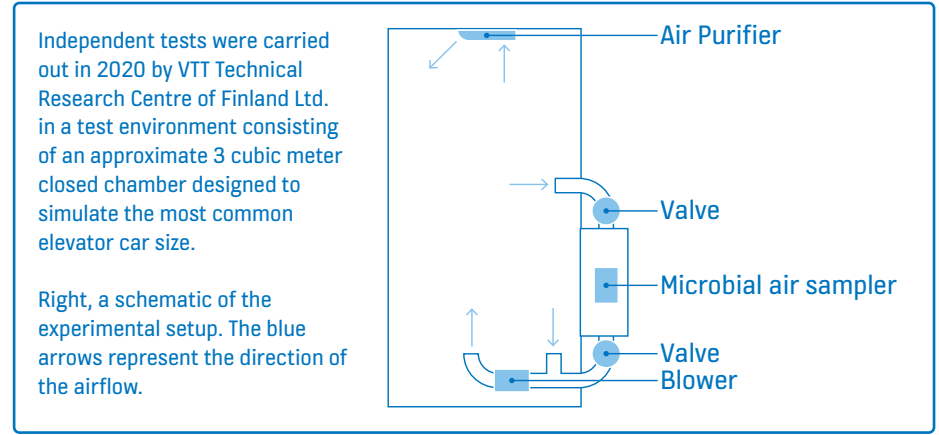


In elevator equipped with KONE Elevator AirPurifier, more than 80% of MS2 bacteriophage virus is reduced in 30 minutes and 95% in 60 minutes.



Inform passengers with KONE Elevator AirPurifier stickers placed inside the elevator.

Enjoy clean and purified air



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