

SMART ELEVATOR CABIN AIR PURIFICATION WITH OZONE

As COVID-19 is still active worldwide, it is important to ensure that elevators used by millions of people every day remain a safe and efficient method of transportation. The ozone air purifier is a highly effective, affordable and easy-to-install solution to create a clean and healthy cabin environment.

Elevators are enclosed, restricted spaces that often lack ventilation, making them a potential hazard during situations like the current global pandemic. With the aerosols in the air, dangerous viruses and bacteria get into the cabin interior and thus endanger the safety of passengers, even on subsequent elevator rides. In addition to implementing social distancing rules, limiting elevator use to one person at a time and wearing personal protective equipment, it is important to continuously purify and sanitise cabin air to prevent exposure to the risk of infection.

What is an ozone air purifier?

It is a system that purifies the air in lift cabins using ozone, creating a clean and hygienic environment, free from harmful microorganisms. It also removes other noxious chemical compounds, including those that cause unpleasant odours.

Ozone successfully combats airborne biological contaminants (bacteria, viruses, moulds, pollen and mites) and sterilises the cabin air. Ozone also neutralises spores and dust, and eliminates gases and smoke.

How is the air purifier installed?

Because the purifier is mounted on brackets on the cabin roof, installation is quick and simple. There is no increase in noise or vibration inside the lift.

A 25 mm hole is drilled in the cabin roof to accommodate the nozzle that sprays the ozone and ions. The purifier is then connected to the 220 V power supply. Assembly time: 0.5 - 1 hour.

How does it work?

Developed especially for elevators, the purifier sprays a continuous flow of less than 0.05 ppm of ozone, the level permitted for use where people are present. It is a safe product, certified with an EU Declaration of Conformity.

TECHNICAL SPECIFICATIONS	
Energy use	4.3 W - 0.08 A
Voltage / Frequency	220-240 V; 50/60 Hz
O3 production	Continuous production of 10mg/h
Ion production	10,000,000 ion/m3
Weight	850 g
Lifespan	7 years, with no requirement for maintenance or consumables

Fresh and healthy air guaranteed



Reduces viruses, bacteria and other germs

Through the constant flow of ozone gas, viruses and other pathogens are significantly reduced.

- **Eliminates odours**

Rather than simply disguising unpleasant odours, the system decomposes and destroys the particles that cause them. The system destroys pathogens in the air, thus achieving a healthy environment free of any infection, tobacco odours, humidity, dirty water, etc.

- **Eliminates fumes and gases**

Elimination of fumes and gases, especially in elevators installed in industrial areas. By means of the ozonolysis process, the purifier is capable of eliminating smoke effectively and safely.

- **Eliminates chemical agents**

The system eliminates chemical agents that may be used in the elevator cabin and which might cause negative health effects for sensitive users.



Neutralises spores and dust


With its ozonating power, the system purifies allergen compounds from pollen that cause allergies and asthma. Negative ions adhere to pollen and dust particles, which increases their mass and causes them to fall to the ground. The cabin air remains clean and healthy.



Provides fresh and healthy air

Sometimes referred to as “air vitamins”, negative ions have tremendously positive effects on health and well-being. The air purifying system contributes negative ions that have antimicrobial effects and helps fight against positive ions that can be harmful to human health.

Please take account of other specific requirements that your project may have in relation to this matter and contact your TK Elevator sales representative for personalised advice.

 Contact

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