

SMART ELEVATOR CABIN SANITISATION WITH UV LIGHT

Using UV photo-catalyst oxidation technology and a slow-release filter for allround disinfection and purification of elevator air, your elevator will be safe to use within only a few minutes.

Elevators are enclosed, restricted spaces that often lack ventilation, making them a potential hazard during global situations like the COVID-19 pandemic.

Cabin air, elevator surfaces, buttons and handrails are particularly prone to attracting viruses and bacteria and therefore warrant special attention.

In addition to implementing social distancing rules, limiting elevator use to one person at a time and wearing personal protective equipment, it's important to sanitise elevators to reduce exposure to the risk of infection.

TECHNICAL SPECIFICATIONS

Circulating air volume	60 m ³ /h
Power	15 W
Adaptor rated Voltage	220 V, 50/60 Hz
Max. operation current	1.2 A (24 VDC)
Working temperature	from -20 °C to + 45 °C
Relative humidity	5-95%
Noise	50 dbA (1 meter)
Dimensions	300 × 150 × 70 mm
Weight	1.6 kg

Eliminate pathogens with air and UV light

Invisible, silent and easy to maintain and install.



Ventilation

A mechanical ventilation device with 3 small integrated fans and equipped with a coated filter – a molecular material of slowly released chlorine dioxide, which is a powerful and non-poisonous disinfectant. Air is withdrawn from the elevator and is cleansed of viruses and bacteria before being released back into the elevator. Assuming the dimensions of a normal elevator to be 1.5 m x 1.5 m x 2.3 m, the 60 m³/h output airflow can perform purification and air-change up to 12 times per hour. The system requires neither air outlets nor ducts.

Disinfectant recommended by WHO



The filtration system also automatically removes dust and other harmful particles, so you can enjoy fresh and clean air.



Plug & Play

Our qualified service personnel will install the surface-mounted device in the cabin in less than one hour. Equipped with dedicated electronics, the device recycles air without needing to be programmed or connected to the elevator control panel.

- The unit can be placed anywhere on the elevator walls
- The mounting frame is easily screwed to the elevator wall
- Only one hole is required for the power cable
- The device is connected to the power supply



Maintenance

The sanitation device must undergo maintenance on a regular basis to ensure its proper operation. Maintenance includes:

- Replacing the air filter every 3 months
- Replacing the UV module every 12 months



Ultraviolet light

Studies have shown UV-C wavelengths to be effective against bacteria and viruses by penetrating their cells and damaging the DNA or RNA containing their genetic code. The sanitisation device uses a small UV lamp to provoke photo-catalyst oxidation. Thereby the cabin air is purified.



Due to an ultra-thin aluminium alloy cover specially designed to fully enclose the UV photo-catalyst module, UV radiation leakage is prevented.

Retrofit

The device can be retrofitted into existing systems to reduce exposure to the risk of contagion and ensure the safer use and maintenance of elevators. The system operates with minimal disturbance for passengers.



Eliminates >99% of bacteria and viruses

The air sanitiser eliminates almost all microorganisms from the cabin air. The device is automatically activated if the presence sensor detects a person entering the elevator. The delayed shutdown function will continue disinfection for 30 minutes, once the person leaves the elevator.



Contact

www.tkelevator.com