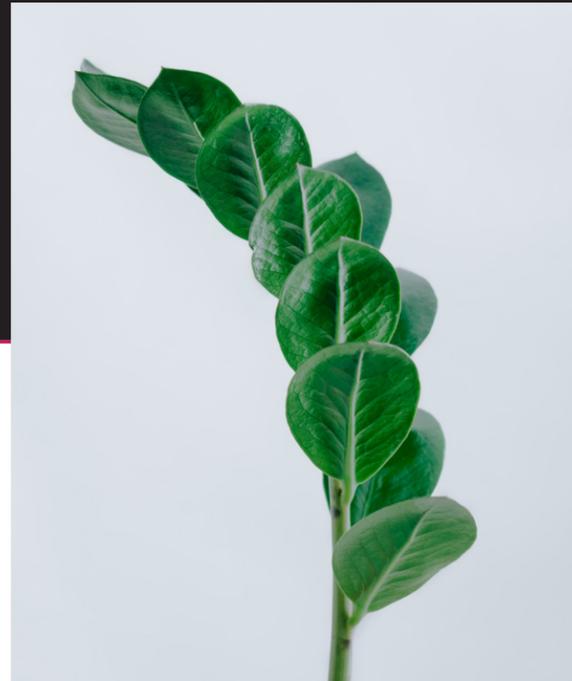


The importance of clean, healthy indoor air has never been more important than it is today. Small particles (aerosols) are formed by talking, coughing, and sneezing, and can hang in the air for extended periods of time. These particles then circulate around rooms by both air current and movements. Breathing in this contaminated air increases the risk of the continued spread of viruses.

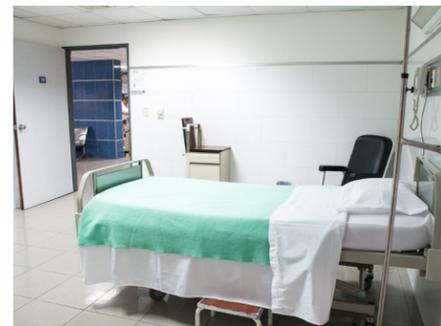


To inactivate airborne viruses, indoor air and UVC disinfection units are particularly effective in preventing further spread. The EIR UVC series provides clean air indoors ensuring improved safety for everyone.

Our UVC emitters which operate at 253.7nm eradicate bacteria, viruses and all known pathogens when they are exposed to a sufficiently high dose of ultraviolet light, ensuring that the DNA and RNA is damaged and can therefore no longer replicate. The air is then passed through the HEPA filter, resulting in clean air being forced back into the room itself.

## APPLICATION AREAS

Air flow capacities of the EIR UVC ventilation units vary between 100m<sup>3</sup>/h – 2.000m<sup>3</sup>/h. The devices are suitable for indoor areas from 20m<sup>2</sup> to 150m<sup>2</sup>. The units are designed to circulate the indoor air at least 3 times an hour depending upon the building ceiling height and floor area. The EIR UVC series achieves a 99.95% kill rate on a single pass. Exemplary application areas include closed areas such as shopping centres, stores, hospitals, offices, airports, and clinics.



# EIR1000® EIR1350® EIR2000®

The EIR 1000, 1350 and 2000 inactivate airborne viruses by exposing them to an intensive UVC dosage in conjunction with a High-Efficiency Particle Arresting Filter (HEPA).



MODEL NO	EIR 2000	EIR 1350	EIR 1000
APPLICATION AREA	SHOPPING CENTRES / STORES	OFFICES	HOSPITALS
ROOM SIZE / HEIGHT	150m <sup>2</sup> /4.5m	150m <sup>2</sup> /3m	75m <sup>2</sup> /3m
MAXIMUM AIR FLOW RATE	2,000m <sup>3</sup>	1,350m <sup>3</sup>	1,350m <sup>3</sup>
MAX. ROOM SIZE TREATED @ 1 ROOM AIR CHANGES/HOUR	2,000m <sup>3</sup>	1,350m <sup>3</sup>	675m <sup>3</sup>
MAX. ROOM SIZE TREATED @ 3 ROOM AIR CHANGES/HOUR	675m <sup>3</sup>	450m <sup>3</sup>	225m <sup>3</sup>
DIMENSIONS (W X L X H)	69x104x175cm	69x75x175cm	69x75x175cm
OPERATING VOLTAGE	220v/50Hz	220v/50Hz	220v/50Hz



## GENERAL SPECIFICATIONS AND ADVANTAGES

Due to the COVID-19 pandemic, the need for indoor air filtration systems has seen a marked rise, in all closed spaces. They inactivate airborne viruses by exposing them to an intensive UVC dosage in conjunction with High-Efficiency Particle Arresting Filter (HEPA). The units are on a base with wheels, meaning that they are entirely portable, standalone and plug and go products. There is no need for assembly or installation and the entire series all have user friendly touch screen control panels.

## UVC EMITTERS

- The coronavirus will be 99.95% inactivated at each pass due to the intensity and duration of exposure to the UVC light in the unit.
- The required intensity of UVC light is provided with in the unit itself.
- The working life of the UVC emitters is 9,000 hours.
- Due to the design of the devices, UVC rays do not spread to the environment and do not therefore cause any negative impact upon human health. The devices therefore can be safely operated in environments where people are present.

## FILTRATION

- G4 class panel filter is used for pre-filtering (air in).
- The HEPA filter in the devices will hold onto the particles passing through the UVC (air out).
- H13 class HEPA filter, provide efficiency of 99.95% and above for a particle size of 0.3µ is used.
- SARS-CoV-2 has a diameter of 0.1-0.2µ, but as it cannot move in isolation and is suspended in an aerosol or by saliva coming out of the human mouth, the virus will be retained with this filter as well.

## UVC EMITTERS

The use of UVC emitters in ventilation devices helps to inactivate bacteria and viruses that can be found in the air we breathe; thus, a healthier indoor air is provided. When viruses are exposed to UVC light, their DNA is damaged and inactivated.

The test conducted shows; the most effective wavelength of UVC light that harms genetic structure of micro-organisms is 253.7 nm. The UVC light used in our devices operates at this wavelength. The UVC emitters used in our devices are long-lasting (9,000 hours) and ozone-free. The amount of UVC that is required to be exposed to inactivate the SARS Corona virus by 99.95% is 2,730  $\mu\text{W}\cdot\text{sec}/\text{cm}^2$ . EIR UVC devices are designed to provide this level of dosage as a minimum.

The total dose of UVC in our devices is calculated by the exposure time and intensity of UVC. The exposure time of the virus to UVC is critical in determining device flowrate capacities. Air velocity in our devices is determined by considering this key criteria.



Tests of the EIR 1000, 1350 and 2000 performed on viruses having the same genetic structure as COVID-19, have achieved a successful result over 99.95%.

## HEPA FILTER

HEPA filters are used for total air filtration. H13 class HEPA filters are used in EIR 1000, 1350, 2000 and 350 units according to EN 1822 standard.

H13 class HEPA filters provide 99.95% and above efficiency for a particle size of 0.3 $\mu$

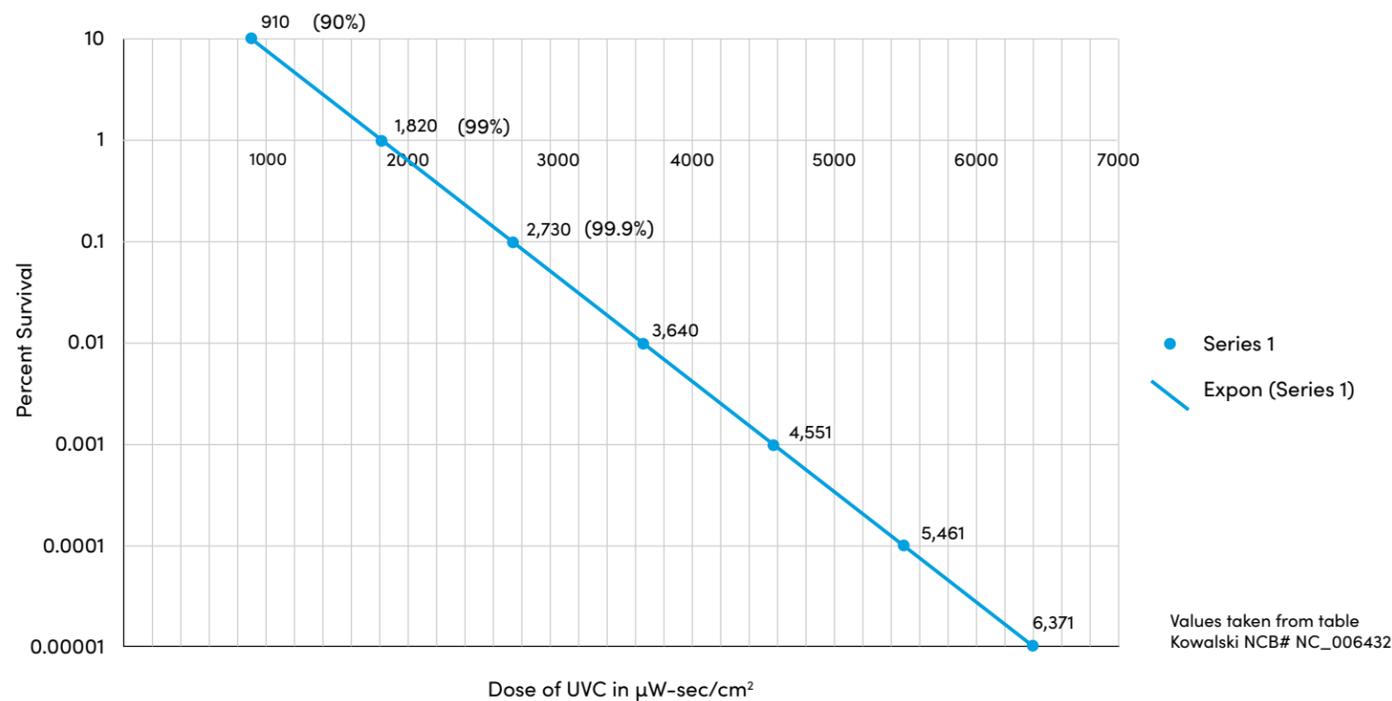
## CONTROL PANEL DETAILS

A touch screen, user friendly control panel is integrated into each of the EIR 1000, 1350 and 2000 series, this also shows the device operating status and filter pollution information.

## QUALITY AND SAFETY

The ventilation unit is CE certified. The design of the units UVC emitters ensures that no UVC light is dispersed outside of the device itself, ensuring it is completely safe to use where humans are present. Our devices are guaranteed for 24 months.

Predicted Survival of SARS Corona Virus



HEPA FILTER



CONTROL PANEL



E QUALITY CERTIFICATE



# EIR 350<sup>®</sup>

Due to the unique design of the EIR 350, UVC light is entirely contained and cannot reach the surrounding environment or cause any harm to local personnel.



## GENERAL SPECIFICATIONS AND ADVANTAGES

- The EIR 350 is designed to inactivate airborne micro-organisms in enclosed areas such as dental clinics, offices, hotels etc.
- The unit sits on a base with wheels; they are portable, standalone, and plug and go products. There is no need for assembly or installation.
- The UVC lamp operation status can be seen with the signal light and the time of operation can be seen with the timer on the unit.
- The unit is ideal for use in dental clinics thanks to its acrobat extraction arm, which is integrated to the device.

## UVC Emitters

- The coronavirus will be 99.95% inactivated at each pass due to the intensity and duration of exposure to the UVC light in the unit.
- The required intensity of UVC light is automatically provided within the unit.
- The working life of UVC lamp is 9,000 hours.
- The unique design of the EIR 350, ensures that UVC rays do not spread to the environment and therefore do not cause any negative effect on human health.

MODEL NO	EIR 350
APPLICATION AREA	DENTAL CLINICS
ROOM SIZE / HEIGHT	20m <sup>2</sup> /3m
MAXIMUM AIR FLOW RATE	350m <sup>3</sup>
MAX. ROOM SIZE TREATED @ 3 ROOM AIR CHANGES/HOUR	350m <sup>3</sup>
MAX. ROOM SIZE TREATED @ 6 ROOM AIR CHANGES/HOUR	180m <sup>3</sup>
DIMENSIONS (WxLxH)	65x75x85cm
OPERATING VOLTAGE	220v/50Hz



## FILTRATION

- G4 class panel filter is used for pre-filtering.
- A highly efficient activated carbon filter is used in the EIR 350, the activated carbon filter is used to absorb gas pollution and odours.
- Activated carbon filter cartridges are replaceable.
- The HEPA filter in the products will hold the particles passing through the UVC emitters.
- H13 class HEPA filter, provide efficiency of 99.95% and above for a particle size of 0.3µ is used.
- The coronavirus has a diameter of 0.1-0.2µ, but since it cannot move in isolation and needs to be suspended in aerosols or particulate in saliva, the virus will be retained with this filter as well.

MODEL NO	EIR 250
APPLICATION AREA	OFFICES, HOUSES, SHOPS
ROOM SIZE / HEIGHT	30m <sup>2</sup>
MAXIMUM AIR FLOW RATE	250m <sup>3</sup>
MAX. ROOM SIZE TREATED @ 3 ROOM AIR CHANGES/HOUR	250m <sup>3</sup>
MAX. ROOM SIZE TREATED @ 6 ROOM AIR CHANGES/HOUR	85m <sup>3</sup>
DIMENSIONS (W X L X H)	35x149x35cm
OPERATING VOLTAGE	220v/50Hz



## GENERAL SPECIFICATIONS AND ADVANTAGES

- The EIR 250 is designed to inactivate airborne microorganisms in small and closed areas such as offices, houses, small rooms, toilets, and storerooms etc.
- The unit inactivates viruses in the air by exposing them to UVC light.
- The unit can be mounted by hanging it on the ceiling or wall.
- The unit is conveniently controlled with a remote control.
- The UVC lamp operation status can be seen with the signal light and the time of operation can be seen with the timer on the unit.
- It is very easy to access and maintain the filter thanks to the service cover on the unit.

## UVC LAMP

- The coronavirus will be 99.95% inactivated at each pass due to the intensity and duration of exposure to the UVC light in the unit.
- The required intensity of UVC Light is provided in the unit.
- The working life of UVC lamp is 9,000 hours.
- Thanks to the special design of the devices, UVC rays do not spread to the environment and do not cause any negative effect on human health. In this way, the devices can be operated in environments where people are present.

## FILTRATION

- G3 class panel filter with low pressure loss and high dust holding capacity is used for filtration.
- The filter can be washable for repeated use.

MODEL NO	EIR 100
APPLICATION AREA	VEHICLES, ELEVATORS, WC
ROOM SIZE / HEIGHT	10-20m <sup>2</sup>
MAXIMUM AIR FLOW RATE	100m <sup>3</sup>
MAX. ROOM SIZE TREATED @ 3 ROOM AIR CHANGES/HOUR	100m <sup>3</sup>
MAX. ROOM SIZE TREATED @ 6 ROOM AIR CHANGES/HOUR	40m <sup>3</sup>
DIMENSIONS (W X L X H)	20x148x20cm
OPERATING VOLTAGE	220v/50Hz



## GENERAL SPECIFICATIONS AND ADVANTAGES

- This product, with the rising need due to the recent COVID-19 outbreak, is designed to inactivate airborne microorganisms in small and closed areas such as vehicles, elevators, WC, small rooms, stores etc.
- The unit inactivates viruses in the air by exposing them to UV-C light.
- The unit can be used on the desktop by plugging into the wall socket, on vehicles by using a 12V vehicle socket, on the ceiling or on the wall, or in closed areas with a wheeled base option.
- The unit is conveniently controlled with its existing remote control.
- The UV-C lamp operation status can be seen with the signal light and the time of operation can be seen with the timer on the unit.
- It is very easy to access and maintain the filter thanks to the service cover on the unit.

## UVC LAMP

- The coronavirus will be 99.9% inactivated at each pass due to the intensity and duration of exposure to the UV-C light in the unit.
- The required intensity of UV-C Light is provided in the unit.
- The working life of UV-C lamp is 9,000 hours.
- Thanks to the special design of the devices, UV-C rays do not spread to the environment and do not cause any negative effect on human health. In this way, the devices can be operated in environments where people are present.

## FILTRATION

- G3 class panel filter with low pressure loss and high dust holding capacity is used for filtration.
- The filter can be washable for repeated use.



Designed for today's demanding total room disinfection

[www.racura.se](http://www.racura.se)

## Let's talk.

Whether you are researching or already have a disinfection system, let's discuss the benefits that EIR UVC® can bring to your facility. Call 0770-171733 or email us at [info@racura.se](mailto:info@racura.se).