

**REDUCING
CROSS CONTAMINATION RISK
IN DENTAL SURGERIES**



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Indoor air quality in dental surgeries.

The key to a winning smile is no secret – avoid too much sugar, say no to fizzy or acidic drinks, and – above all – regular brushing and flossing! But just as teeth require frequent and careful cleaning, so too does the **indoor air** in our dental practices:

CROSS-CONTAMINATION

Ill or contaminated patients come into close contact with each other in waiting and reception areas, and direct contact with doctors and assistants while in the surgery. And of course, aerosol generating procedures are a constant risk when it comes to the spread of viral and bacterial pathogens, remaining in the air for hours after treatment.

TOXIC AIR

Without proper ventilation and careful airflow control, dental clinics can suffer from air polluted with harmful gases, fumes from cleaning products and other chemicals, dust and mould, which can threaten patients and staff with respiratory conditions or allergies.

URBAN CONDITIONS

Dentists often practice in built-up, urban or suburban areas close to easily accessible roads, a major source of airborne contaminants and VOCs that can penetrate and linger within indoor spaces.

COVID-19

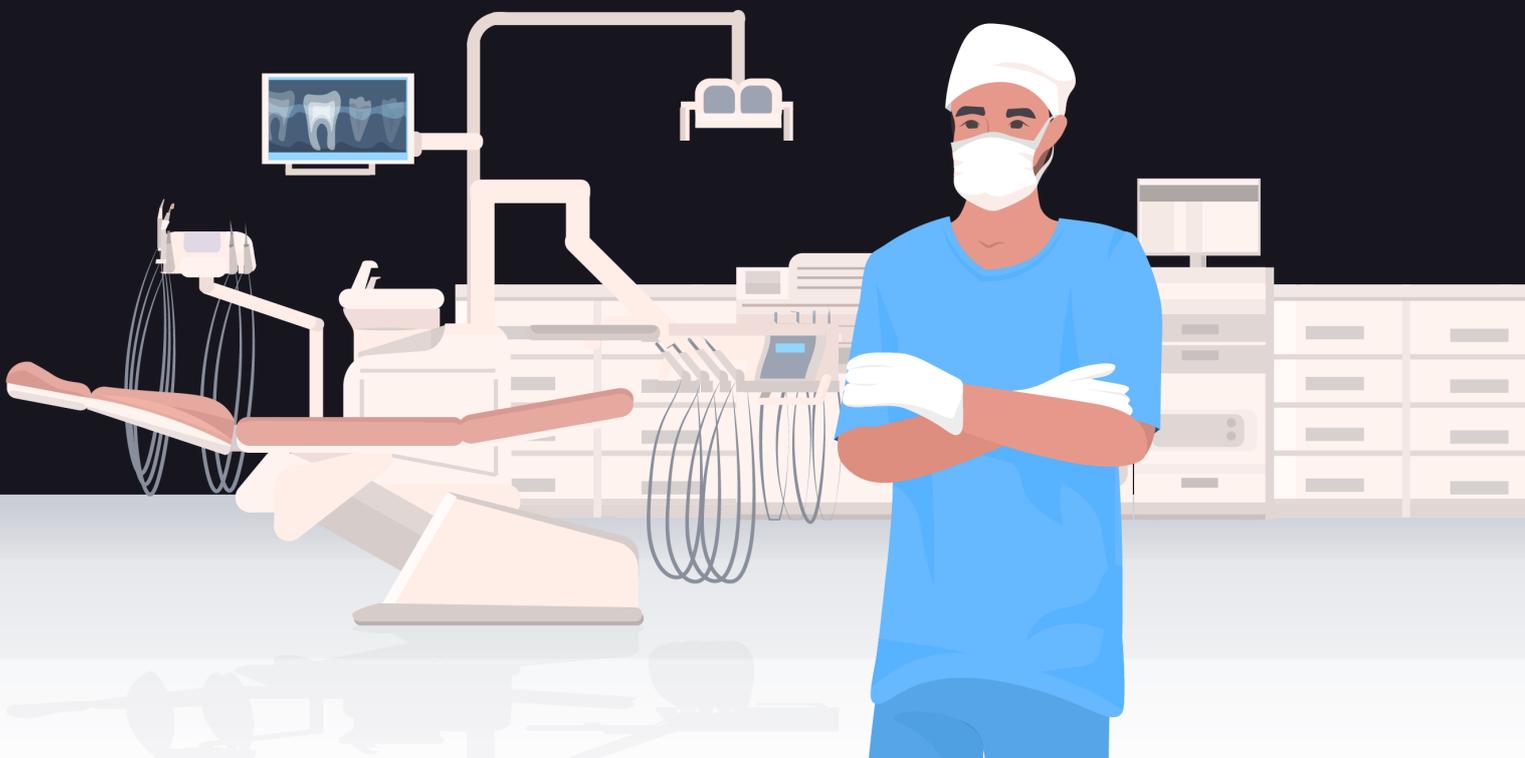
Since the COVID-19 outbreak, dental clinics have been put under massive pressure as they struggle to remain operational in the midst of global pandemic and regulatory crisis.

As a venue, the dental surgery itself is highly susceptible when it comes to the spread of COVID-19 – patients must be unmasked as a matter of practicality, exhaling potentially contaminated air towards doctors, assistants and into the space itself.

Additionally, numerous dental practices around the world now face heavily regulated fallow times – periods of downtime they are encouraged, or even

required, to implement between any aerosol generating procedures. While designed to protect the patients and staff within practices and clinics, it comes at the huge cost of drastically lowering the number of patients that can be attended to. This cripples the ability for dentists around the world to work, and puts oral hygiene for many at serious risk.

Indoor air decontamination technology that effectively intercepts viruses and other airborne contaminants could reduce the risk of viral infection, maintain a safe environment for visitors and staff, and help reduce fallow time between patients – allowing practices to operate at greater efficiency in difficult times.



VIRUSKILLER™

VIRUSKILLER™ is the **clean air technology** that protects the air in sensitive medical, commercial and residential spaces.

16 YEARS OF TECHNOLOGICAL ACHIEVEMENT

VIRUSKILLER™ was developed in response to the 2003 SARS coronavirus outbreak, and has since been trusted by critical healthcare facilities to manage and clean indoor air at peak levels of performance and efficiency.

WORLD CLASS AIRBORNE VIRUS KILLING

VIRUSKILLER™ deactivates airborne viruses, bacteria, fungi, and mould in a **single air pass**. No other technology provides this level of **realtime protection** against airborne pathogens.

AIR FOR A BETTER QUALITY OF LIFE

VIRUSKILLER™ neutralises toxic gases and VOCs, and effectively removes dust, allergens and ultrafine particles.



AIRFLOW CONTROL

VIRUSKILLER™ takes control of the airflow of indoor spaces. Each **VIRUSKILLER™** unit is equipped with low-noise Sirocco fans that draw in contaminated air, and direct clean air into the room's breathing area. This management of the movement of air in the room helps prevent cross-contamination between occupants.

SINGLE AIR PASS KILL RATE

VIRUSKILLER™ deactivates airborne viruses, bacteria, fungi and mould that move through the unit, *each and every time*. This **single air pass** pathogen kill

rate is unequalled, and means **always-on, real-time protection** for occupants.

PATENTED REACTOR CHAMBER

The heart of **VIRUSKILLER™** is our patented reactor chamber, featuring premium, high power UV-C lamps for maximum decontamination of bacteria and viruses.

TRIPLE FILTRATION

The mid-size **VK 401** and larger **VK 103** feature a zero-compromise, triple filter system as standard. The pre-filter, HEPA filter and carbon filters ensure dust, pollen, smoke and VOCs are trapped and removed from circulation.





HEXTIO

The **most effective clean air solution** for desktops and smaller spaces.

The **Hextio** is the smallest unit in our product range and covers areas of up to 20 sqm. The **Hextio** is ideal for sanitizing the air around a single person.

Once the air has passed through the unit and is sanitized, the directional hood at the top of the **Hextio** ensures that the clean air flows directly into the individual's breathing space.

USE CASES:

- Pharmacy counters
- Office desks
- or
- Any room smaller than 20 sqm.





VK 401

Perfect air decontamination for medium rooms and common spaces.

The **VK 401** is a wall-mounted or freestanding unit that is suitable for areas of up to 60 sqm. It creates a laminar airflow that draws contaminated air away from the breathing zone, and replaces it with clean, safe air.

With triple filtration and 8 high power UVC lamps, the **VK 401** contains the same **VIRUSKILLER™** technology found in much larger units designed for medically sensitive spaces - and of course, retains our **single air pass** disinfection and airflow control capabilities.

USE CASES:

- Laboratories
 - Clinics
 - Staff toilets / Changing areas
 - Offices
- or
- Any room smaller than 60 sqm.





VK 103

Best in class air decontamination for communal areas and large indoor spaces.

The **VK 103** is a powerful, free-standing tower unit best suited for large, high traffic areas. It covers areas of up to 100sqm.

The **VK 103** takes control of the airflow in a room. First, it draws contaminated air away from the breathing zone and into the bottom of the unit. The air then passes through the filters and reactor chamber where contaminants are removed, and viruses killed. Sterilized air is then released in four directions from the top of the unit back into the breathing zone of the occupants in the room.

Featuring the same high quality UVC lamps, a powerful, yet silent Siroccofan and an uncompromising set of industrial filters, the **VK 103** is the best **VIRUSKILLER™** solution for total peace of mind in larger spaces and communal areas.

USE CASES:

- Retail spaces
- Waiting areas
- Queues
- or
- Any room smaller than 100 sqm.

