

REACT-AIR PURE

Commercial Air Filtration System



T. 0203 885 2299

www.reaction-grp.com

Poundbury House | Poundbury West Industrial Estate | Dorchester | Dorset | DT1 2PG

React-Air Pure

Commercial Air Steriliser

The React-Air Pure is a portable air steriliser designed for use in commercial environments.

Using a UVC technology, the powerful fans drive the airflow through the decontamination chamber, neutralising bacteria, viruses, pollen and odours, delivering clean and sterile air to a room.

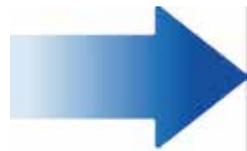
Installing React-Air hygiene systems in the workplace enhances indoor air quality (IAQ) immediately. These can be strategically positioned in a variety of indoor areas such as offices, schools, retail outlets, care homes, and healthcare facilities to produce the best outcomes for cleaner indoor air.

They're also a visual and reassuring indicator for staff that their employer considers air quality important for their protection.



What is UV-C?

The Technology Explained



What is UVC?

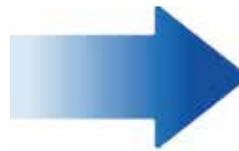
How does the React-Air Pure neutralise viruses in the air?

UVC light is highly effective at decontamination because it destroys the molecular bonds that hold together the DNA of viruses and bacteria. UVC light has been regularly used to decontaminate surgical tools and hospital rooms.

The Pure draws air into its extraction vents which are specifically designed to capture as many virus particles as possible. The air then passes through a medical-grade HEPA 14 filter, trapping any larger contaminants, and finally through a high intensity UVC chamber, capable of delivering a dose of over 240J/M³ - enough to neutralise even the most resilient coronaviruses studied. The high power, variable fan can circulate up to 1703 metres cubed of air per hour - enough to give 9 air cycles per hour in an average 50 person office space.



Destroyer Array
Eliminating Covid-19



Destroyer Array

The 3 Stage Process for Eliminating Covid-19

1. HEPA 14 Filtration

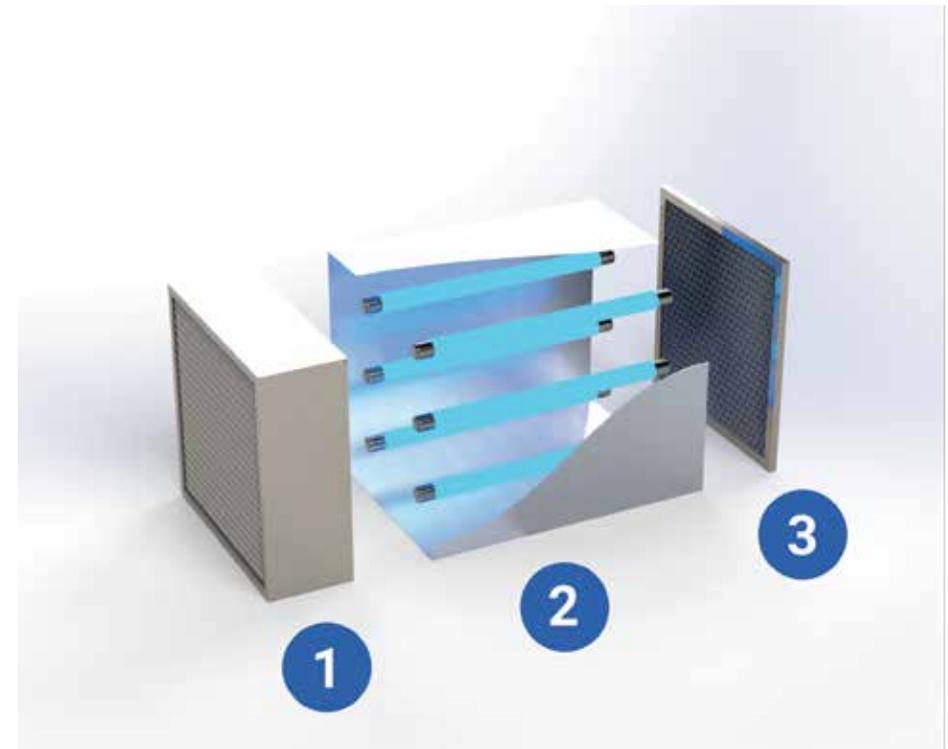
Using the React-Air's high-pressure fan, air is passed through a HEPA 14 filter to remove 80% of particles 0.3-1 microns. This process removes pollens, bacteria and viruses bonded to larger particles such as water droplets (the primary way Covid-19 spreads through airborne transmission).

2. Powerful UVC Array

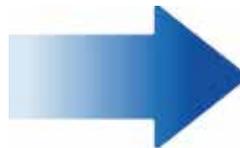
The filtered air is then passed through a UVC array, which delivers a dose of 250J/M3 – enough to neutralise Covid-19 (67J/M3 for one second of exposure according to studies). The effect of the UVC Array is intensified by its polished aluminium interior. UVC renders virus particles inert (sterile) by changing the molecular structure of the virus DNA.

3. Activated Carbon Filter

Finally, the air is passed through an activated carbon filter to remove any remaining odours. As well as removing any natural odours in the environment, the reaction between UVC and dust particles creates a mild, but for many people, unpleasant smell – all are removed with Activated Carbon.



Technical Specifications



Technical Specifications

React-Air Pure

Supply Voltage	230V A/C
Fan Dimension	355 mm
Minimum Power Consumption	440 W
Maximum Power Consumption	521 W
Average Power Consumption	460 W
Average Air Flow (with HEPA filter)	1703 M3 Per Hour
Dimensions (H / D / W)	460 mm x 380 mm x 380 mm
Weight	14.8 Kg
Noise Level (min / max)	20db
Dominant Wavelength	253.7 nm
Radiated Power (UVC) Per Lamp	6.9W (110.4W Total)
Total BC Flux	94.94 W
Volume Bacterial Dose at Average	273.44 J/M3
Lamp Lifetime (Average)	6000 - 9000 hours
HEPA 14 Filter Lifetime (Average)	12 Months



For more information call 0203 885 2299



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