# REACT-AIR PURE & PPURE PLUS

## Air Safety Systems


Reaction Group

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

# React-Air Pure

## Commercial Air Steriliser

The React-Air Pure is a compact, ultra quiet and powerful air-sterilisation system. Simply position the device, turn it and adjust the fan speed to your desired level.

Using our proven 3-phase filtration system, it destroys viral particles in the air using medical-grade HEPA 14 filters, a powerful UVC array and Activated Carbon. Tested by independent laboratories, our filtration system has been proven to destroy Covid-19 and provides 3 times the UVC dose to destroy influenza in the air.

The high-power fan can process 1200m3 of air per hour, exchanging the air in a large office or conference room (8x7x2 metres) 10 times per hour. Weighing just 14kg and measuring 40cm on each side, it's portable and can be moved easily to different parts of your building.


**What is UV-C?**

The Technology Explained

# React-Air Pure Plus

## Commercial Air Steriliser

The React-Air Pure Plus combines the powerful air cleaning features and capacity as the React-Air Pure but with advanced monitoring features.

Using the touch screen, you are able to control timers and air exchange levels. It also monitors and displays Carbon Dioxide and air quality levels. By connecting to wifi, you are able to use our online app to see history air quality and CO2 information, allowing you to prove compliance with ventilation standards.

The high-power fan can process 1200m3 of air per hour, exchanging the air in a large office or conference room (8x7x2 metres) 10 times per hour. Mounted on castors, it is portable and can be easily moved to different parts of your building.


**What is UV-C?**

The Technology Explained

# What is UVC?

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## How do the React-Air Pure & Pure Plus 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 and Pure Plus draw air into their extraction vents whichare 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 1200 metres cubed of air per hour - enough to give 10 air cycles per hour in an average 50 person office space.


## Destroyer Array

Eliminating Covid-19

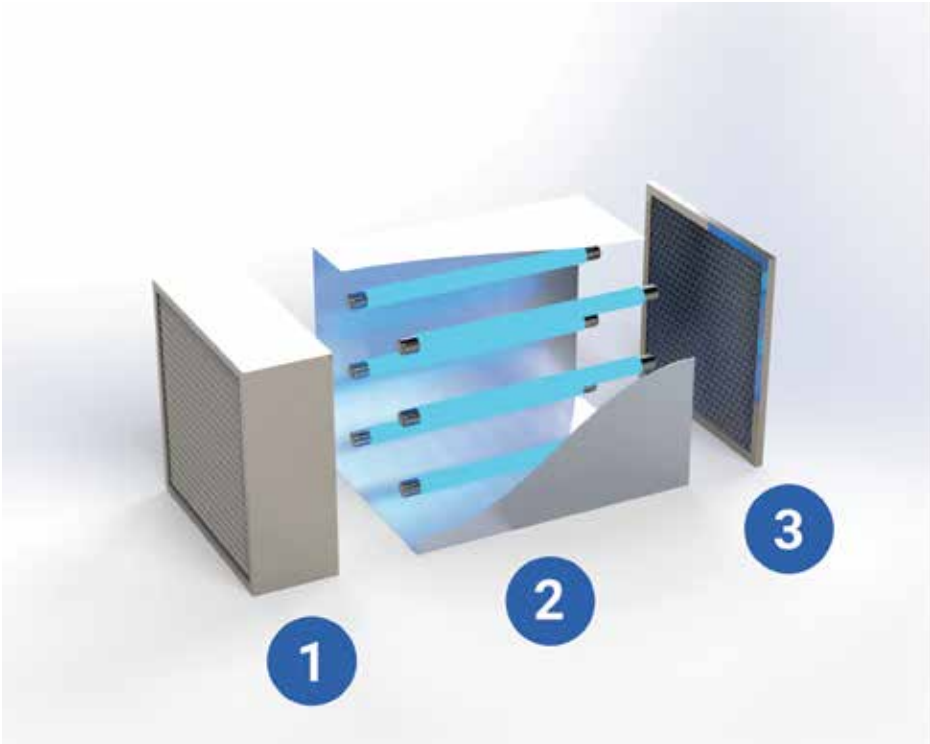
# Destroyer Array

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 it's 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, he reaction between UVC and dust particles creates a mild, but for many people, unpleasant smell –all are removed with Activated Carbon.




## Technical Specifications

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## React-Air Pure

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|---|---|
| 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) | 1200 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

# Technical Specifications

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## React-Air Pure Plus

| | |
|---|---|
| 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) | 1200 M3 Per Hour |
| Dimensions (H / D / W) | 6500 mm x 360 mm x 360 mm |
| Weight | 35 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 |
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