



AIR PROTECTION

Protecting Your Working Environment

Proven and effective air monitoring, purification and sanitisation products for the health and wellbeing of your people and your customers.

About Us

At Air Protection we recognise that a key priority for any organisation is looking after its biggest asset – its people (and its customers). It is now widely documented that maintaining healthy indoor air quality (IAQ) is paramount to ensuring our health and wellbeing. This in turn is proven to help minimise sick leave and maximise productivity.

The challenge is of course amplified by a lack of circulating fresh air and inadequate ventilation; poor outdoor air quality; and unavoidable close-contact working conditions. Then, we can add viruses, bacteria, pollen, dust, and other harmful air borne pollutants into the mix...

Air Protection's management team has a wealth of experience in healthcare, infection control, and commercial property management solutions. This puts us in a unique position to advise on the most appropriate and effective air monitoring, purification and sanitisation products to help your business trade more safely.



mail@airprotection.co.uk



0141 237 3090



airprotection.co.uk



The Problem

Our indoor air quality is making us ill

- In 2019, the WHO reported that indoor air quality is on average 5 times worse than outdoor air.
- 57% of all sick leave was attributed to poor ventilation in an NIH study.
- According to the BMJ, improving indoor air quality and ventilation will help us all to stay safe.
- Since April 2020, COVID-19 has accounted for 14% of all occurrences of UK sickness absence in data published by the ONS.
- XpertHR's annual survey showed that in 2019, the average number of days off-sick per employee in the UK was 6.4.
- Poor productivity and days off-sick are costing the UK economy £77.5 billion per year according to Britain's Healthiest Workplace survey.



Sources:

<https://pubmed.ncbi.nlm.nih.gov/11089326/>

<https://www.bmj.com/content/373/bmj.n913>

<https://www.ons.gov.uk/employmentandlabourmarket/peopleinwork/labourproductivity/articles/sicknessabsenceinthelabourmarket/2020>

<https://www.personneltoday.com/hr/sickness-absence-survey-2020-xperthr/>

<https://www.ablrecruitment.com/sick-staff-cost-uk-economy-77-5-billion-year/>



Our Solution



Aura Air Smart Purifier

The World's Smartest Air Management Platform

- **4 Stage air filtration, disinfection & purification**
 - Disinfects >99.9 % of viruses, bacteria, VOCs and allergens.
- **Max Air Change per hour (ACH) 350 m3**
 - >2.5 times/hour in a 132 m3 room (50m2, 2.4m ceiling height)
- **Real-time air quality control & monitoring platform**
 - An array of smart sensors, ensures personalised recommendations, realtime data, and full control of your indoor air quality
- **Suitable in every indoor location**
 - Wall, ceiling, desktop, or free-standing
- **Plug & Play**
 - Download the app, pair & connect to WiFi, manage multiple devices





How It Works

Detection

Air Quality Index (AQI) parameters

Indoor: smoke, CO, CO₂, VOC, PM 2.5, PM 10, temperature, humidity.

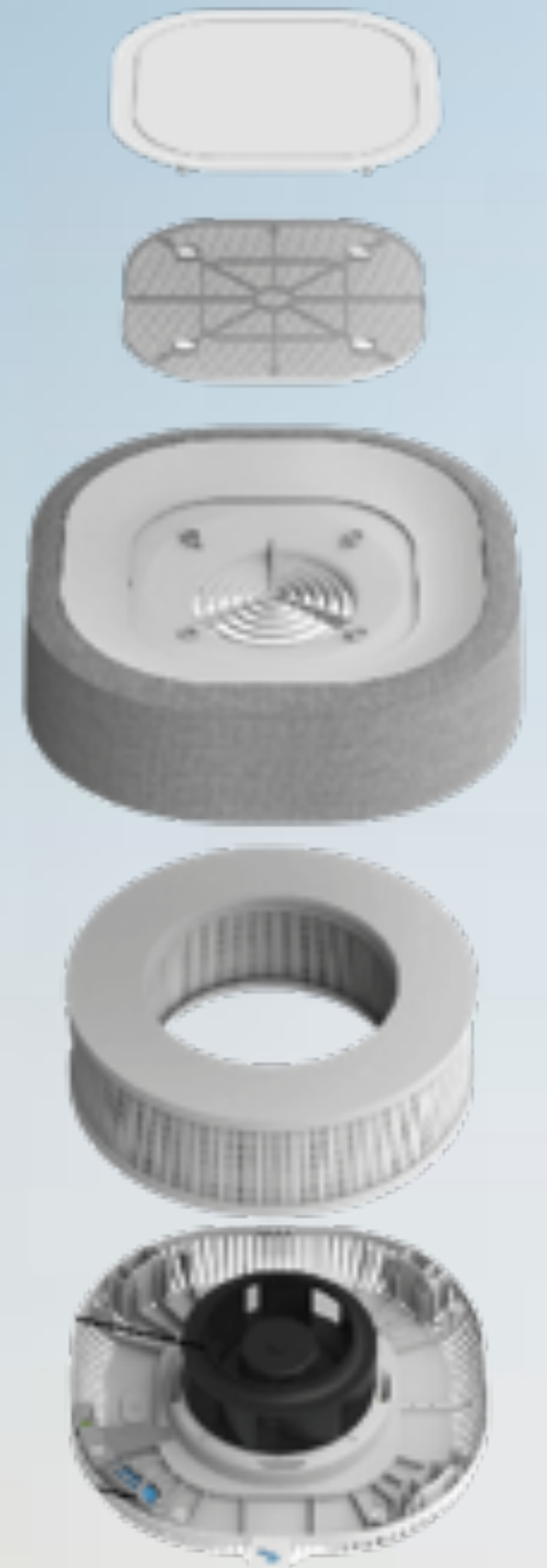
Outdoor: CO, NO_x, NO, NO₂, O₃, allergens, VOC, PM 2.5, PM 10, temperature, humidity, weather.

Personalisation

The Aura App personalises the device for the end user's needs and health requirements to provide relevant recommendations based on the indoor and outdoor AQI readings.

4 Stage Filtration, Disinfection & Purification

1. The **Pre-Filter** captures large particles of dust, pollen, insects, animal hair and other large impurities.
2. The patented **RAY Filter** consists of 3 parts:
 - **MERV 16 Rated Filter** - the highest rating of a HEPA filter's ability to capture particles down to between 0.3 and 1 microns (μm).
 - **Carbon layer:** absorbs VOC's and bad odours.
 - **Smart Copper Fabric:** filters viruses, bacteria, and .
3. **UVC LED's:** neutralise bacteria, viruses, and parasites by destroying the proteins on the cell membrane.
4. **The Sterionizer™:** generates positive and negative ions that purify and freshen indoor air.





Mobile Apps

Remote management and real-time monitoring

- System functions available to anyone that has access to Aura Air Apps
- Available for Apple and Android devices (B2C & B2B options)
- Anyone can simply check the air quality using QR codes from any location



Scannable QR Codes

B2B Central Reporting & Admin

- Roles based system management via Aura Air Dashboard / B2B app
- Username/password authorisation
- Simple allocation by location, floor, group, user, etc.
- Multiple devices can simply be added to the Aura Network
- Air quality monitoring and alerts in real-time - HVAC control options
- Produces air quality reports (up to 12 month's data audit available)



Specifications

Air Exchange Per hour (ACH): 350 m³/hr

- ACH >2.5 (55 m²/132 m³ room)
- ACH >6 (24 m² / 58 m³ room)

Dimensions: 37.5 cm x 37.5 cm x 15 cm

Weight: 5.5 Kg

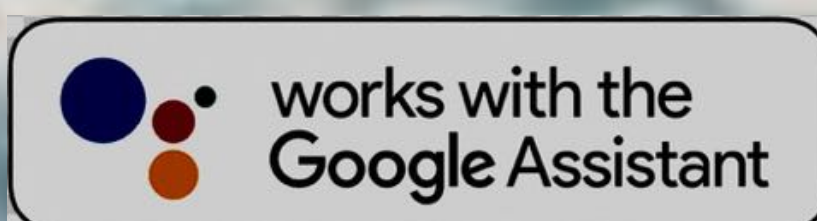
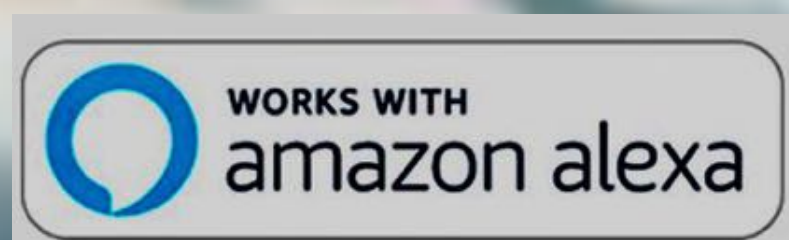
Mounting: Wall, ceiling, or free-standing (comes with wall fixings and mounting template)

Max noise level: 64 dB

Wireless Communication: WiFi (2.4 GHz)

Power: The power transformer plug (PSU) supplied is an auto-sensing 240/220/120/110v AC to 12v DC convertor; 12v to 24v convertor also available separately to enable use in transport - coach/ambulance/train.

Integration: IFTTT; Alexa; Google Assistant; Nest; IoT; HVAC API





Office

Smart Air Purifier Solution

Aura Air Network Office Air Quality Monitoring

Now, employees can **CHECK** and **MONITOR** in **REAL-TIME** the air quality at the office, reception, meeting rooms, canteen and more on mobile devices or TV screens. Thanks to **Aura Air Platform**.



Aura Air Network Management Dashboard

Office / Property Management staff can **MANAGE** and **MONITOR** in **REAL-TIME** the air quality throughout the office premises. Thanks to **Aura Air Dashboard App** receiving alerts when the setup parameters are outside the set limits.



Scannable QR Codes





Care Sector



Smart Air Purifier Solution

Aura Air Network Air Quality Monitoring

Now, seniors and their relatives can **CHECK** and **MONITOR** in **REAL-TIME** the air quality in common rooms, visitor areas, hallways, residents' rooms and more on mobile devices or TV screens. Thanks to Aura Air Platform.

Aura Air Network Management Dashboard

Management staff can **MANAGE** and **MONITOR** in **REAL-TIME** the air quality throughout the facility. Thanks to **Aura Air Dashboard App** receiving alerts when the setup parameters are outside the set limits.



Scannable QR Codes





Education

Smart Air Purifier Solution

Aura Air Network - Parents / Students Air Quality Monitoring

Parents and students can **CHECK** and **MONITOR** in **REAL-TIME** the air quality of their classrooms using mobile devices or TV screens. Thanks to Aura Air Platform.

Aura Air Network Management Dashboard

School/university/college staff can **MANAGE** and **MONITOR** in **REAL-TIME** the air quality in each classroom, bus, office, bathroom, hallway, library, etc. Thanks to **Aura Air Dashboard App** receiving alerts when the setup parameters are outside the set limits.



Scannable QR Codes





Residential & Holiday Properties

Smart Air Purifier Solution

Aura Air Network - Residents & Visitors Air Quality Monitoring

Residents, guests and visitors can **CHECK** and **MONITOR** in **REAL-TIME** the air quality at the property and more on mobile devices or TV screens. Thanks to Aura Air Platform.

Aura Air Network Management Dashboard

Property owners and managers can **MANAGE** and **MONITOR** in **REAL-TIME** the air quality in each room at their properties. Thanks to **Aura Air Dashboard App** receiving alerts when the setup parameters are outside the set limits.





Public Transport

Smart Air Purifier Solution

Aura Air Network - Passengers' Air Quality Monitoring

Passengers can **CHECK** and **MONITOR** in **REAL-TIME** the train/bus's air quality inside on mobile devices or TV screens. Thanks to **Aura Air Platform**.

Aura Air Network Management Dashboard

Transport staff can **MANAGE** and **MONITOR** in **REAL-TIME** the air quality for each train/bus. Thanks to **Aura Air Dashboard App** receiving alerts when the setup parameters are outside the set limits.

