

The World's First Smart Air Monitoring Filtration and Disinfecting Platform for Education



Educational
Institutions



USP's for the Educational Sector

- Compact but sufficiently powerful to be perfect for a typical classroom
- Easy to install and cheap to maintain (change of filter only every 6 mths)
- Scalable B2B App for monitoring each classroom or an entire building
- B2C App for customizing the filter for allergies and health conditions
- The first Filter system completed clinical trials relating to COVID-19

Tests carried out at Sheba Hospital* – COVID19 Laboratory

| Technology in Aura Air | Coronavirus Reduction % |
|------------------------|-------------------------|
| Filter with Copper | 99.9744% |
| Sterionizer | 99.9651% |
| UV-C LED | 99.9631% |



Educational Institutions

Aura Air

An Intelligent Air Quality Platform

with **4**
unique
capabilities...



Aura Air monitors indoor air quality every 10 seconds through **seven high precision built-in sensors** which is then compared to real-time Outdoor Conditions

1

High Precision Indoor Monitoring compare with Outside Conditions



Indoor

- ✓ Smoke
- ✓ CO
- ✓ CO₂
- ✓ VOC
- ✓ PM 2.5
- ✓ PM 10
- ✓ Temperature
- ✓ Humidity
- ✓ LPG



Outdoor

- ✓ CO
- ✓ NO_x
- ✓ NO
- ✓ NO₂
- ✓ O₃ (Ozone)
- ✓ Allergies
- ✓ VOC
- ✓ PM 2.5
- ✓ PM 10
- ✓ Temperature
- ✓ Humidity
- ✓ Weather
- ✓ Weather forecast



Linked to a leading 3rd Party API ...

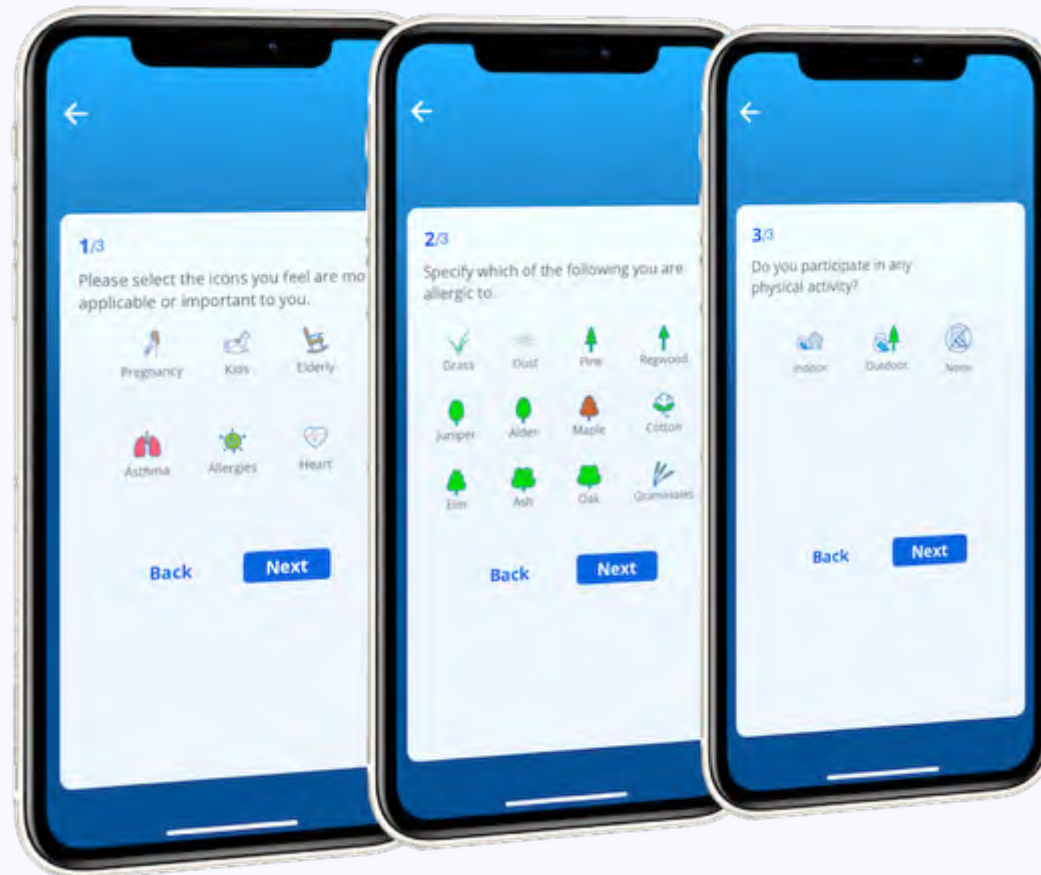
| Aura Air - Integrated Sensors - Monitoring Accuracy | | |
|---|-------------------------|---------------------------|
| Measured parameter | Range of measurement | Accuracy/Resolution |
| IVOC | 0-2008 ppb | 1 ppb |
| | 2008-11110 ppb | 6 ppb |
| | 11110-60000 ppb | 32 ppb |
| Equivalent CO ₂ | 400-1479 ppm | 1 ppm |
| | 1479-5144 ppm | 3 ppm |
| | 5144-17597 ppm | 9 ppm |
| | 17597-60000 ppm | 31 ppm |
| Pm2.5 and Pm10 | 0-500 µg/m ³ | Min particle diameter 1µM |
| CO (carbon monoxide) | 0-500 ppb | 0.1 ppb |
| Temperature | -40°C to +125°C | ±0.2 °C/ ±32.36°F |
| | -40 °F to 257 °F | |
| Humidity | 0-100 % RH | ±2% |

A unique air quality assistant that personalises air quality data precisely to the Establishment's needs and health requirements.

After a one minute online Q&A, the App will provide relevant real-time recommendations based on each child, parent, teacher or administrator's custom profile.

2

Customised
Monitoring
& AI Feedback



3

Enhanced
Filtering &
Disinfection

Aura filters and disinfects air - with two unique patented processes for enhanced protection in addition to traditional UV-C light:

Pre-filter

The pre-filter filters large particles of dust, pollen, insects, animal hair and other large particles.

Patented RAY Filter

consisting of three components:

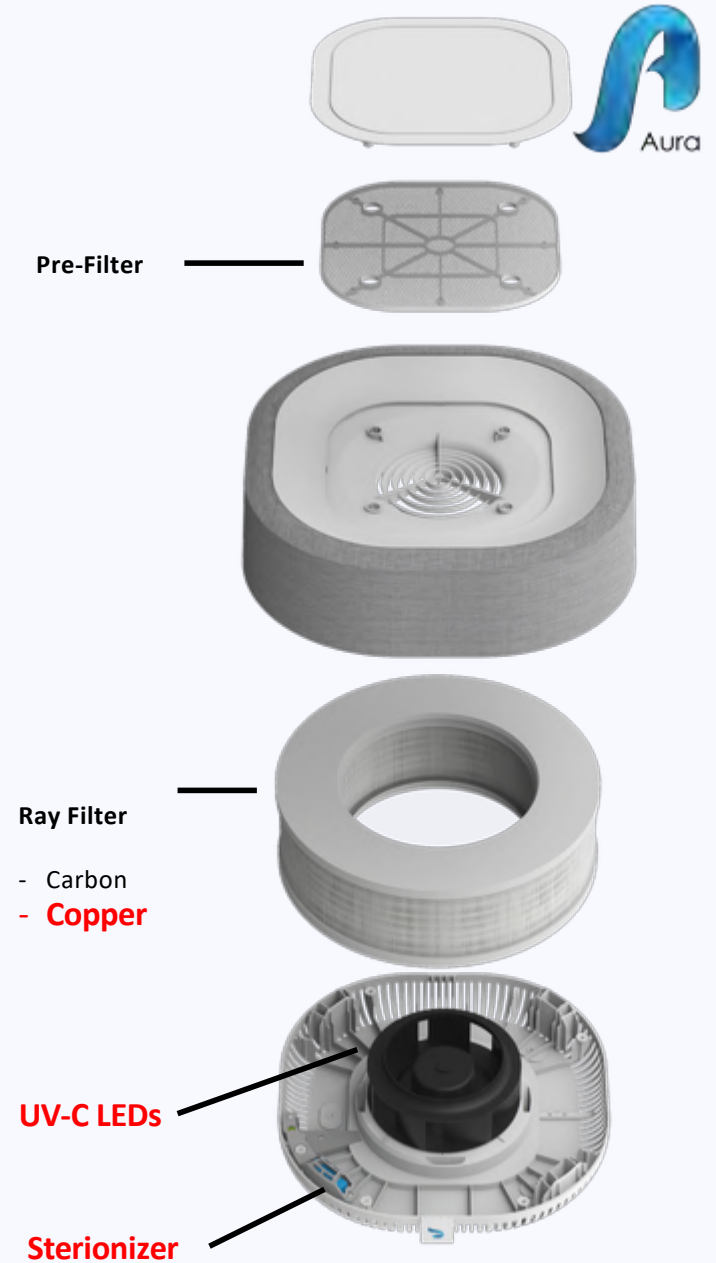
- RAY filters particle sizes down to 0.3 microns
- Carbon layer- absorbs VOC's and bad odors
- Smart Copper Fabric – impregnated copper that kills more than 99% of viruses, bacteria and 100% of mites & fungus*

The Patented Sterionizer

A component based on the technology of bipolar ionization. The Sterionizer generates positive and negative ions – just like those found in nature – that purify and freshen indoor air. A chemical reaction then occurs and oxidants break down the protein structure of pollutants and bacteria.

UV-C LEDs

Short-wave ultraviolet light disrupts DNA base pairing causing formation of pyrimidine dimers and leads to the inactivation of most bacteria, viruses and protozoa.



3

Unique triple attack on the COVID-19 Coronavirus



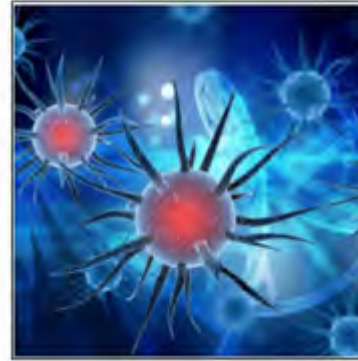
The Patented Sterionizer



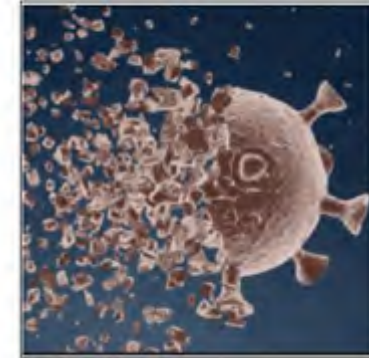
A UNIQUE TRIPLE ATTACK ON THE COVID-19 CORONAVIRUS



UV-C Light



Patented Copper impregnated RAY Filter



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* One of the Top 10 Clinical Hospitals in the World according to Newsweek Annual review

3

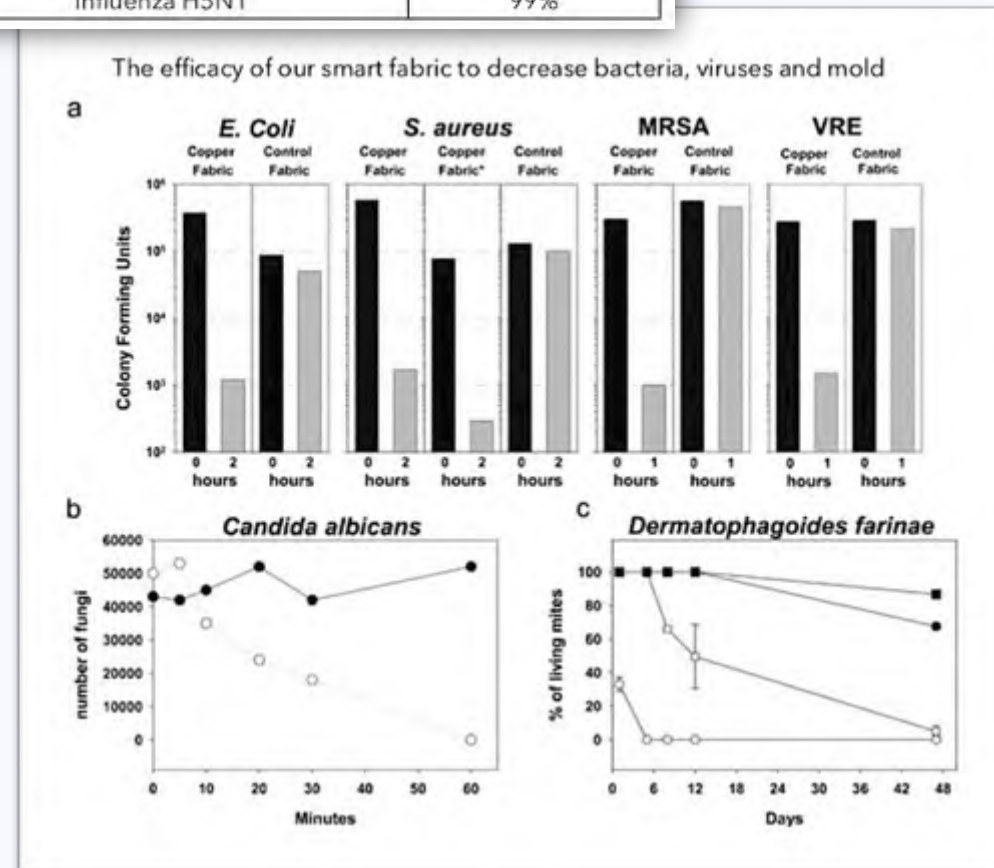
Enhanced
Filtering &
Disinfection

Impregnated
Copper HEPA
RAY Filter

Sterionizer efficiency tests

| Substance | Substance name | Removal |
|-----------|------------------------------|---------|
| Bacteria | Escherichia Coli | 99% |
| | Escherichia Coli ATCC | 91% |
| | Staphylococcus aureus | 91% |
| | Pseudomonas aeruginosa | 99% |
| | Staphylococcus aureus (MRSA) | 99% |
| Fungus | Aspergillus Niger | 97% |
| | Candida albicans | 36% |
| | Dichobotrys abundans | 90% |
| | Penicillium | 95% |
| Mold | Cladosporium cladosporioides | 97% |
| Spores | Bacillus subtilis var Niger | 89% |
| Viruses | Influenza H1N1 | 99% |
| | Influenza H5N1 | 99% |

Sterionizer



4

Scalable
Monitoring and
Feedback
Dashboard

Smart insights at both a local and macro level

- Real-time monitoring & recording **across a School or even a Local Authority**
- Customised insights and recommendations to Children, Teachers and Administrators
- Improved energy efficiency by advising on ventilation **ONLY** when there is cleaner air outside!
- Intelligent, customizable alarms to detect levels going outside preset thresholds e.g. CO₂ gas



Specification

Air Exchanges Per Hour:

2.5 for a volume of 140m³

Voltage:

110-240V auto-switching standard wall mounted Power Supply

Format:

Wall or Ceiling Mountable

Communication:

WiFi (b/g Protocol)

Dimensions:

37.5 cm x 37.5 cm x 15 cm

Weight:

5 Kg

Max Noise level:

64 dB

Recommended Room Size:

50m² to filter a room 2.5x per hour
(Assuming a ceiling height of 2.4m)



reddot award
product design

Thank you



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