



AIR PROTECTION

Aura Air

Smart Air Quality Monitoring,
Filtration & Disinfection

www.AirProtection.co.uk



Aura

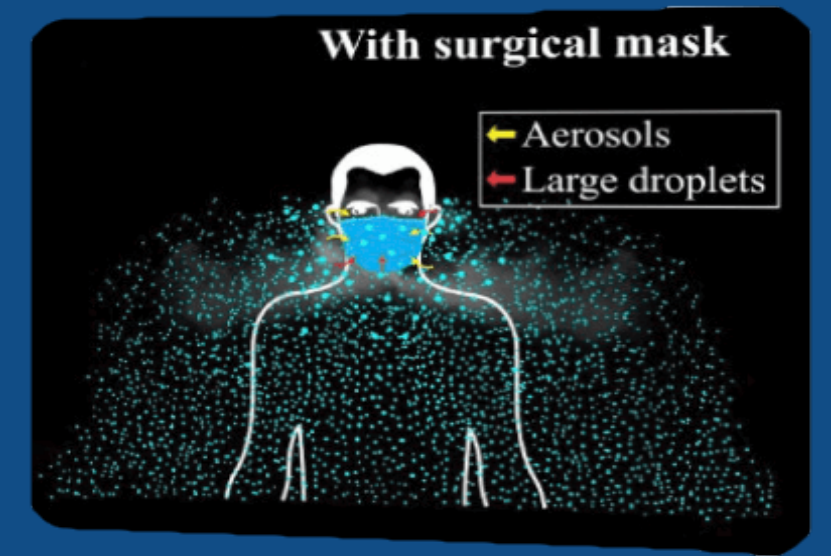
Aura Air



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

Aura Air is the only, all in one, Air Filtration, Disinfection and Monitoring product that has successfully completed clinical trials specifically related to its efficacy against the COVID-19 coronavirus.





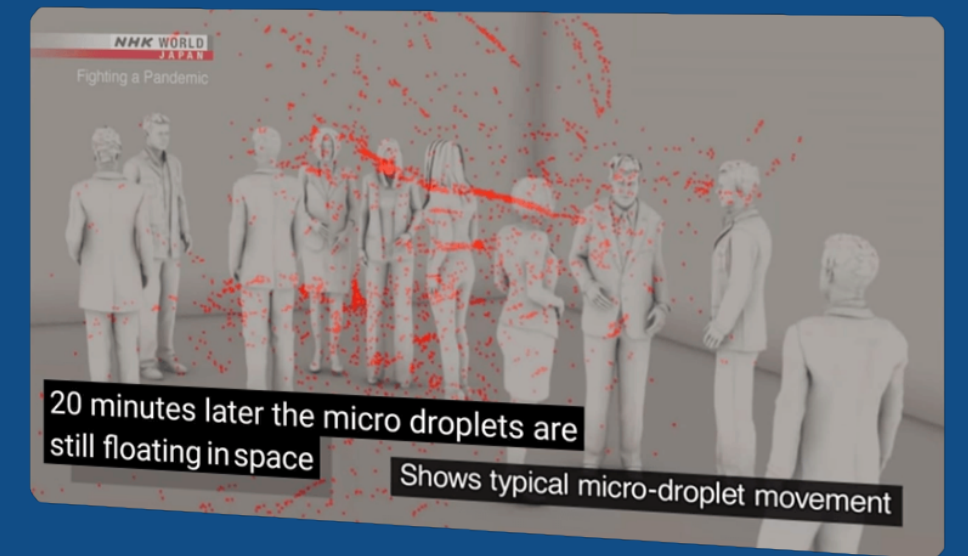
“Surgical Masks only stop 30% of inhaled aerosol droplets”

Excerpt from the Lancet Medical Journal in July 2020

“... a conventional surgical mask only stops 30% of the small aerosol droplets for inhaled breath ... poorly ventilated and populated spaces have been reported as sites of viral transmission despite preventative physical distancing.”

[https://www.thelancet.com/journals/lanres/article/PIIS2213-2600\(20\)30245-9/fulltext](https://www.thelancet.com/journals/lanres/article/PIIS2213-2600(20)30245-9/fulltext)

“Respiratory droplets
can remain suspended for
many minutes to hours and
travel far from the source”



Excerpt from CDC Report on COVID-19 Airborne transmission updated Oct 5, 2020:
“Airborne transmission is infection spread through exposure to those virus
containing respiratory droplets comprised of smaller droplets and particles that
can remain suspended in the air over long distances (usually greater than 6 feet)
and time (typically hours).”

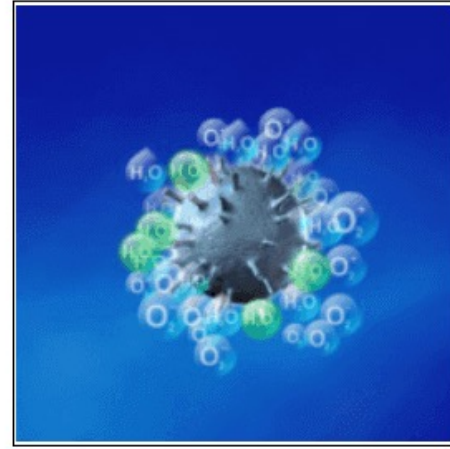
<https://www.cdc.gov/coronavirus/2019-ncov/more/scientific-brief-sars-cov-2.html>

Inside Aura





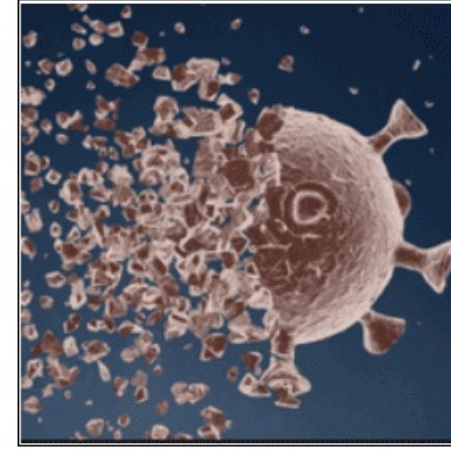
The Patented Sterionizer



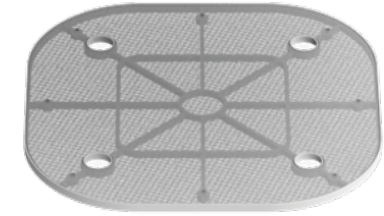
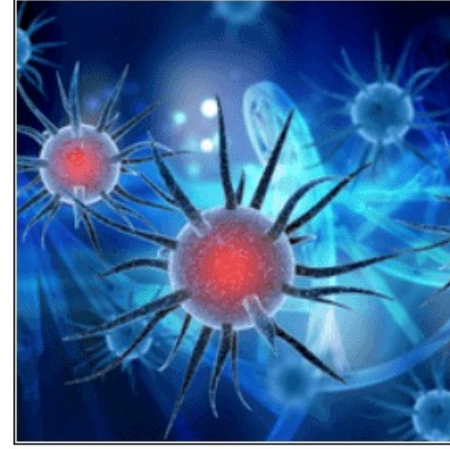
A UNIQUE TRIPLE ATTACK ON THE COVID-19 CORONAVIRUS



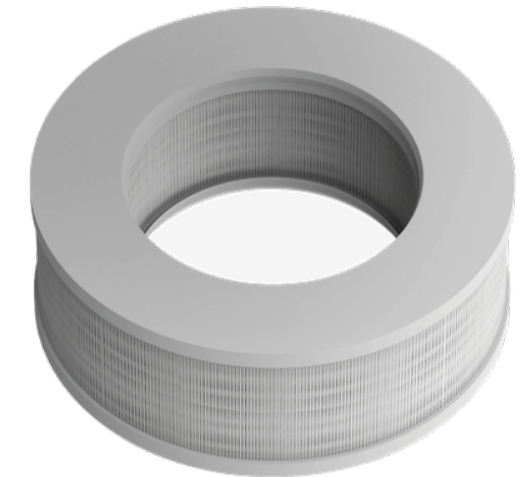
Patented Copper impregnated RAY Filter



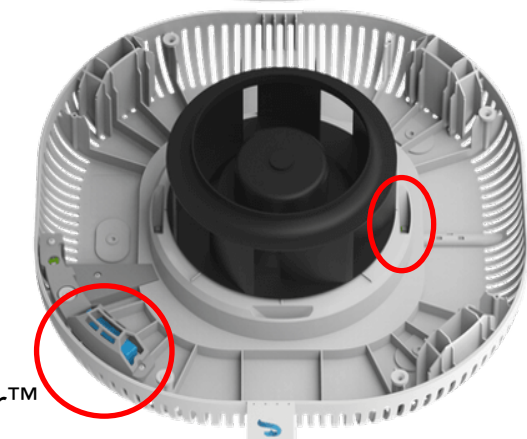
UV-C Light



Pre-filter



RAY Filter



Four UV-C LEDs located around fan

Sterionizer™

The Pre Filter

The pre-filter captures large particles of dust, pollen, insects, animal hair and other large particles. Easy to clean with a handheld vacuum or by washing with water.

The RAY Filter™

The patented RAY filter™ consists of three components:

- Filter - Patented technology capturing particle sizes down to 0.3 microns;
- Carbon layer - absorbs VOCs and bad odours;
- Smart Copper Fabric - a smart “fabric” consisting of a copper and now also a zinc oxide impregnation that destroys viruses, bacteria, fungus and mould.

The Sterionizer™

The Sterionizer™ uses “bipolar ionization”, unlike traditional ionisers which produce high levels of ozone. The Sterionizer™ generates positive and negative ions – as found in nature – that purifies and freshens indoor air by removing viruses, bacteria and mould – not just inside the filter but in the neighbouring air.

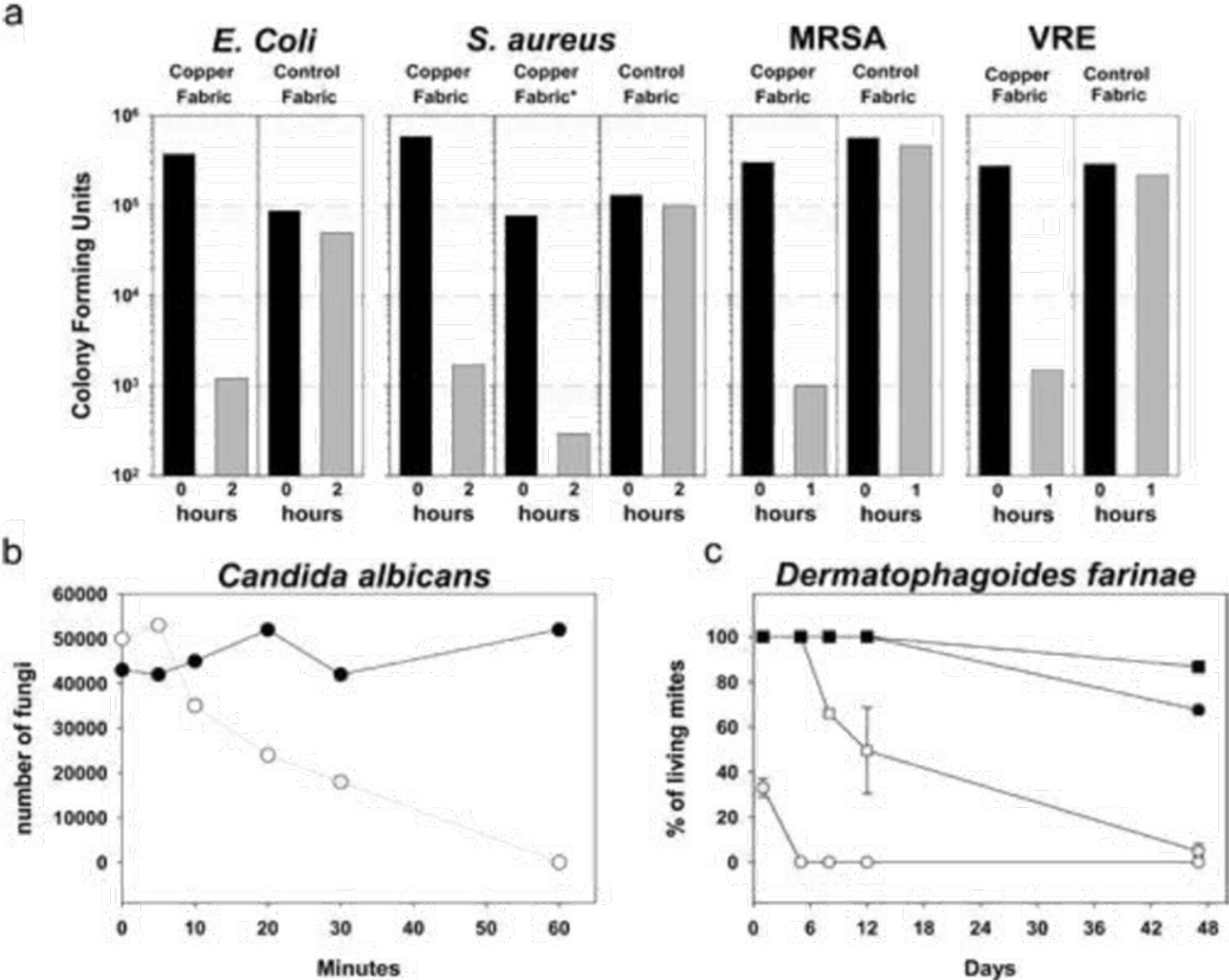
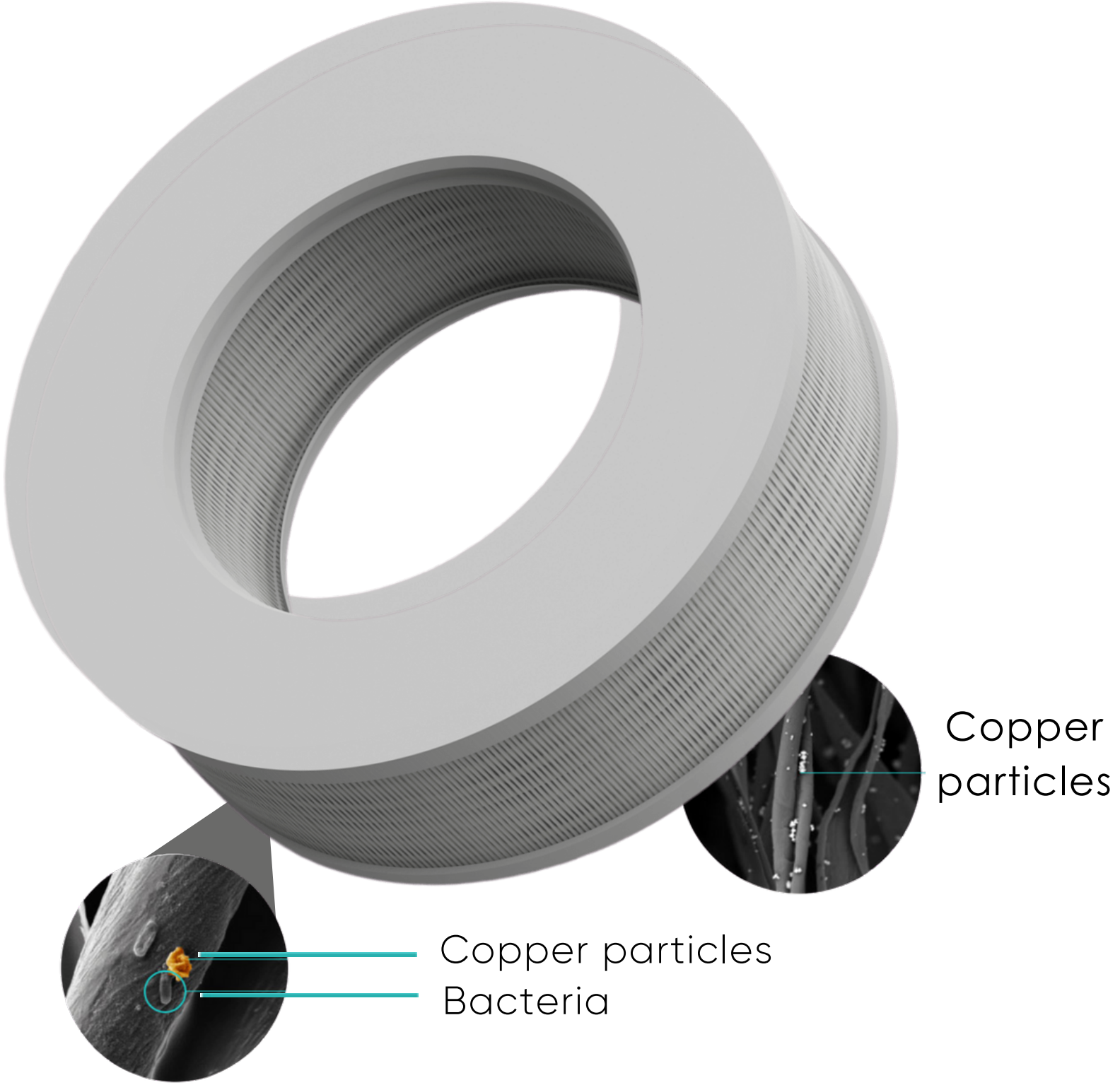
Traditional UVc LEDs

Effective in neutralizing bacteria and viruses by destroying the proteins on the cell membrane. Traditionally used to sterilise medical equipment.

The Ray Filter™

The patented RAY Filter™ consists of three components:

- Filter effective down to particles of 0.3 microns in size
- Carbon layer - absorbs VOCs and bad odours
- Smart Copper Fabric - a smart fabric with impregnated copper that filters viruses, bacteria, and mould



Proven efficacy to dramatically decrease bacteria, viruses and mould

The Sterionizer™

Uses the technology of bipolar ionization. The Sterionizer™ generates positive and negative ions – just like those found in nature – that purify and freshen indoor air by eliminating harmful fungus, bacteria, mould and viruses.



Sterionizer™ efficacy results under laboratory testing:

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%



The Sterionizer™



Coronavirus Clinical Trials

2. Testing Results:

Results processing: The data measured by the RT-PCR system at # 32 was used to evaluate the results of the experiment. This have been defined as the last point in which measurements of control samples do not show saturation of detector and prevent misunderstanding of the results.

Results:

Sample	Coronavirus Reduction Ratio [%]
Ref.1	
HEPA rep1	99.7243
SCF rep.1	99.9744
Sterionizer™ LP rep.1	99.9651
Sterionizer™ HP rep.1	99.9429
UVC LED rep.1	99.9631



★★★★★

WORLD'S BEST HOSPITALS 2020

Newsweek

POWERED BY statista

Two years in a row

Sheba is ranked as a world's Top 10 hospital

This year, ranked #9!

The Dashboard



COVID-19 Alert

Location

2nd floor

Chestnut View Group

- Temperature (C)
- Humidity (%)
- PM 2.5 (ug/m3)
- PM 10 (ug/m3)
- TVOC's (ppb)
- CO (ppb)
- CO2 (ppm)

MIN	MAX
25	75
0	12
0	50
MIN	MAX
MIN	MAX
MIN	MAX

Low or High Humidity Levels

High Aerosol Droplet Levels

Update Rule Cancel



#1

Real-time Monitoring



Aura Air measures indoor air quality, by monitoring 7 air quality parameters, via in-built, smart sensors, every 10 seconds



Indoor

1. CO
2. CO₂
3. VOC
4. PM_{2.5}
5. PM₁₀
6. Temperature
7. Humidity



Outdoor (via link to 3rd party App)

- CO
- NOX
- NO
- NO₂
- O₃ (Ozone)
- Allergies
- VOC
- PM_{2.5}
- PM₁₀
- Temperature
- Humidity
- Current Weather & Weather forecast

The Aura Air API allows integration with existing HVAC systems

#2

Rapid Decision making

- Instantly reacts using integrated, patented, AI technology
- The Dashboard “Alert” feature warns staff of air quality issues and potentially critical or/and high viral dose scenarios

COVID-19 Alert

Location

2nd floor

Chestnut View Group

Temperature (C)

Humidity (%)

PM 2.5 (ug/m3)

PM 10 (ug/m3)

TVOC's (ppb)

CO (ppb)

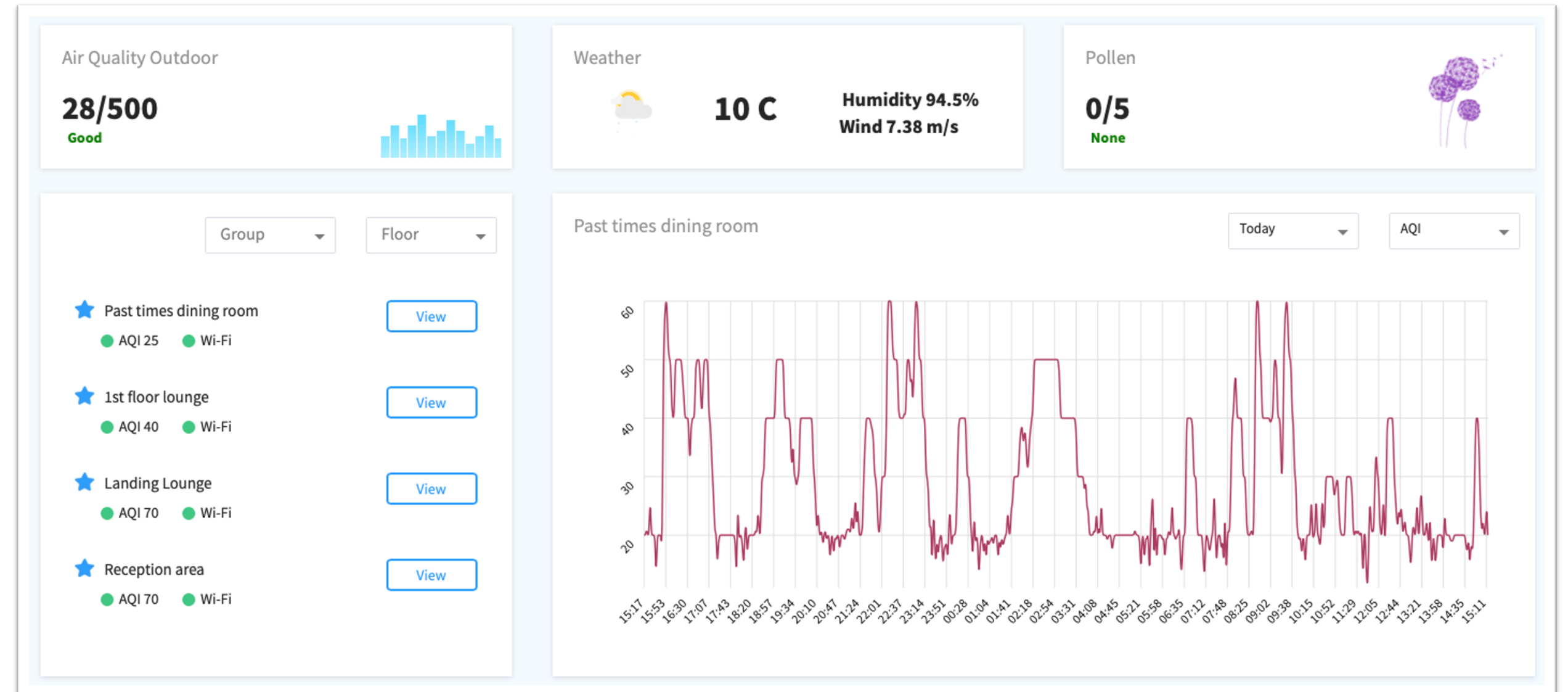
CO2 (ppm)

MIN	MAX
25	75
0	12
0	50
MIN	MAX
MIN	MAX
MIN	MAX

Low or High Humidity Levels

High Aerosol Droplet Levels

Update Rule Cancel



If readings go outside of customisable ranges, an e-mail alert is sent to nominated staff

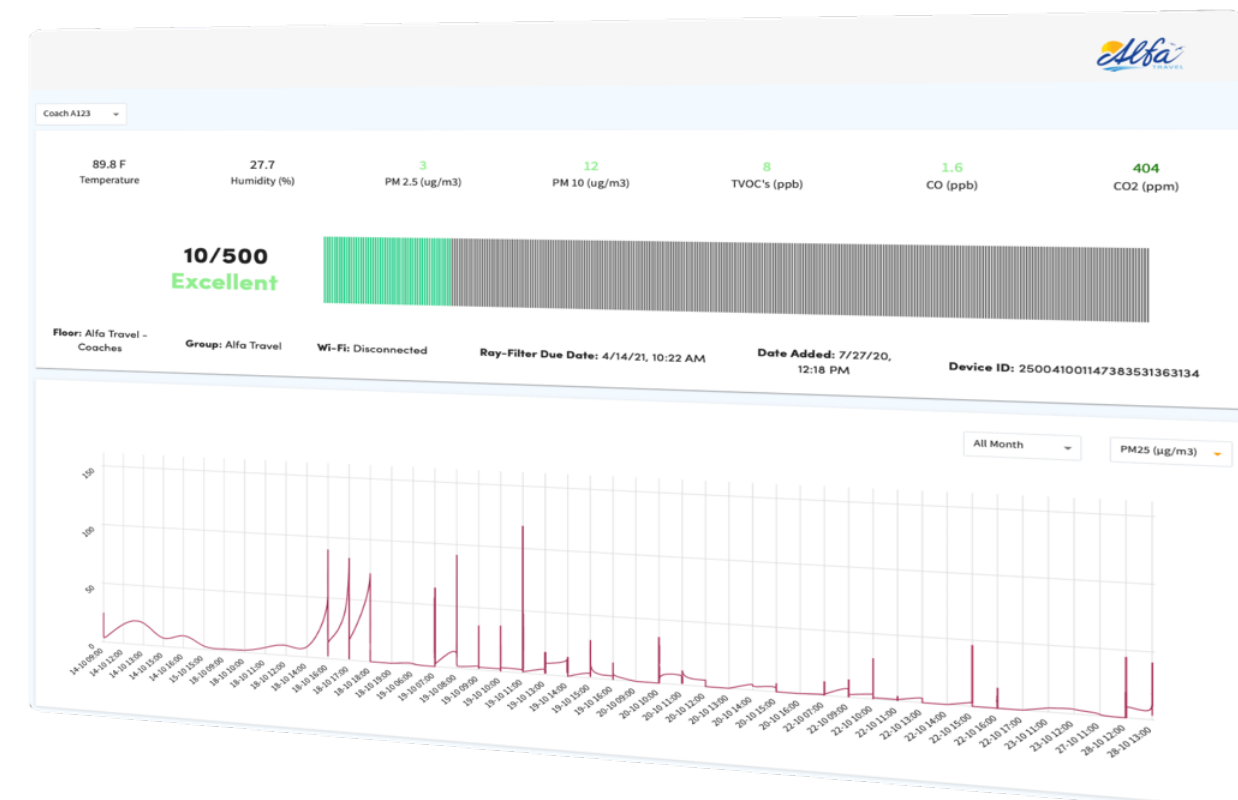
#3 Risk Mgmt & Traceability

- Client & Staff peace of mind to entice them to come back to work
- Audit trail and actions “above and beyond” govmt guidelines
- Hundreds of Filter units can be monitored and displayed in real-time on the B2B Dashboard App
- Customisable Alerts instantly notify staff by e-mail of air quality issues and provide an audit trail
- Functionality to adapt “Alerts” to any FUTURE government guidelines for air quality and viral control
- **12 month Historical data trail** to prove that you have taken precautionary measures “above and beyond government guidelines” to address any potential litigation claims



Clients & Staff can download the QR code to view the AQL in each room

Record up to a year of air quality data



Large screen display in the Reception area

Plug & Play

- 3 screw fixings for simple wall or ceiling mount
- Standard mains point is all that is required (3A)
- Comes supplied with a wall socket power supply





Hotels & Hospitality



Educational Institutions



Commercial Property



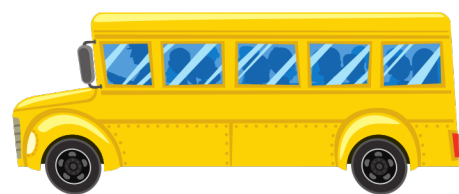
Healthcare Centers



Co-working spaces



Multi-Family Residential



Transportation



Care Homes

Suitable Everywhere

- Scalable solution to fit every space according to your size and needs
- Each Aura Air unit can handle a 60m² area to achieve 2.5x ACH (350m³/hr)
- Group your devices in the Dashboard App by Organisation, Location, and Floor to simplify management

Offices & Commercial Buildings



COVID-19 Condition Alert

<input checked="" type="checkbox"/> Temperature (C)	50	80
<input checked="" type="checkbox"/> Humidity (%)	20	80
<input checked="" type="checkbox"/> PM 2.5 (ug/m3)	0	20
<input checked="" type="checkbox"/> PM 10 (ug/m3)	0	20
<input checked="" type="checkbox"/> TVOC's (ppb)	0	500
<input checked="" type="checkbox"/> CO (ppb)	0	20
<input checked="" type="checkbox"/> CO2 (ppb)	0	500

Set LEED Standards

Aerosol Droplets
between
1-10 μ m

Add Rule

Cancel



Schools and Universities



Air Filtration, Disinfection & Monitoring



Hotels & Leisure/Gyms



COVID-19 Condition Alert

<input checked="" type="checkbox"/> Temperature (C)	50	80
<input checked="" type="checkbox"/> Humidity (%)	20	80
<input checked="" type="checkbox"/> PM 2.5 (ug/m3)	0	20
<input checked="" type="checkbox"/> PM 10 (ug/m3)	0	20
<input checked="" type="checkbox"/> TVOC's (ppb)	0	500
<input checked="" type="checkbox"/> CO (ppb)	0	20
<input checked="" type="checkbox"/> CO2 (ppb)	0	500

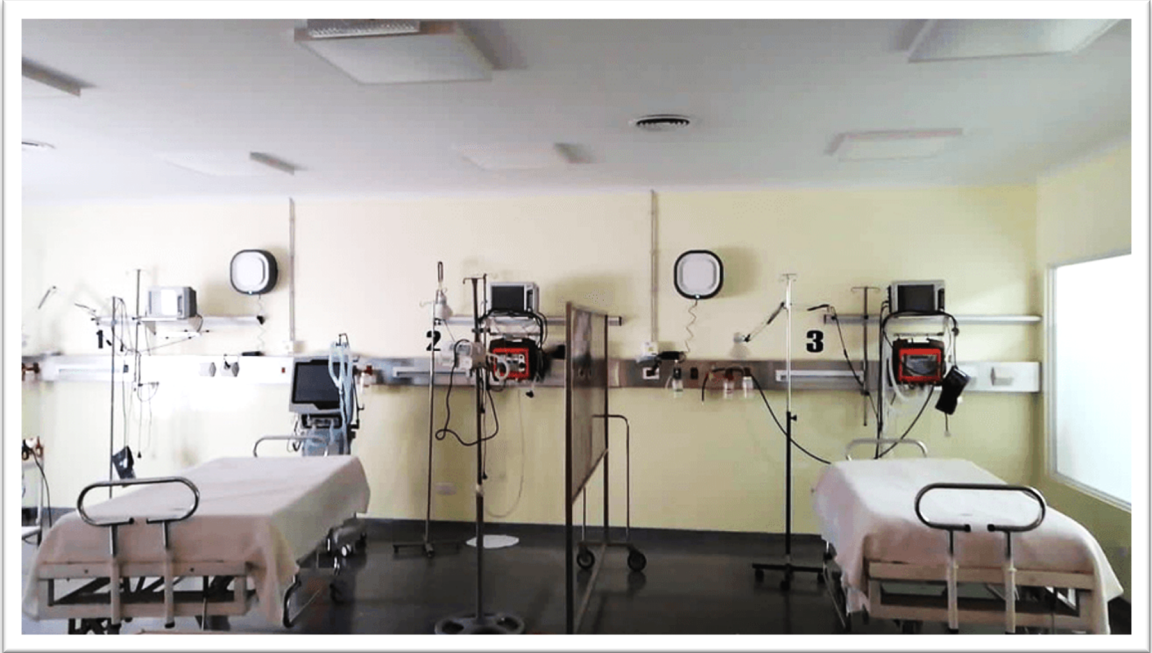
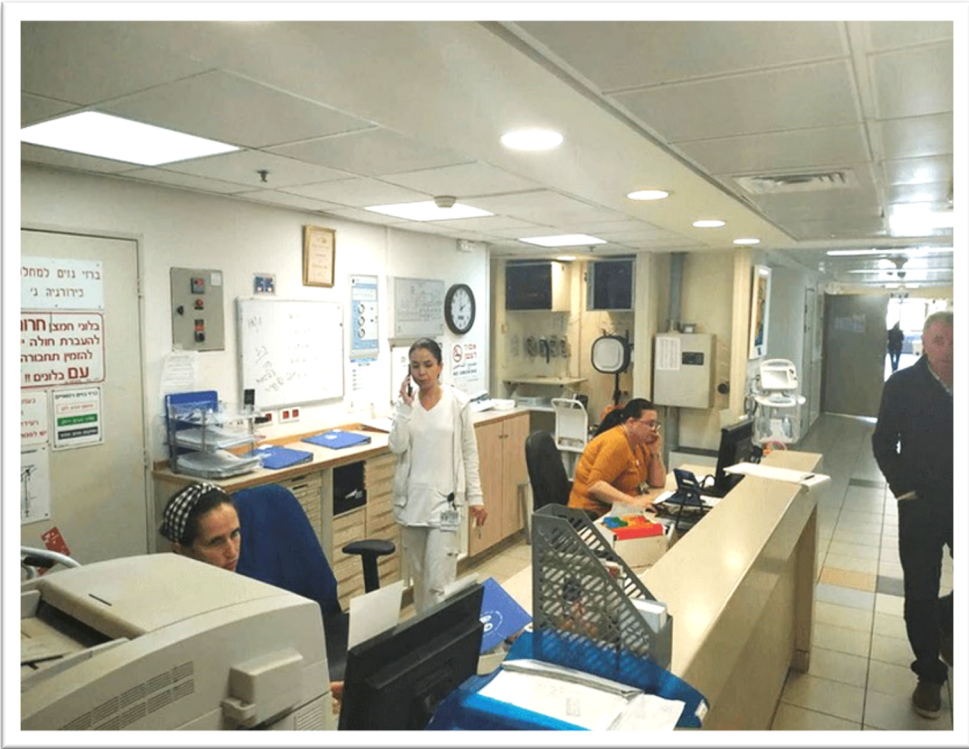
Aerosol Droplets between 1-10µm

Set LEED Standards

[Add Rule](#) [Cancel](#)



Healthcare & Care Homes



COVID-19 Condition Alert

✓ Temperature (C)	50	80
✓ Humidity (%)	20	80
✓ PM 2.5 (ug/m3)	0	20
✓ PM 10 (ug/m3)	0	20
✓ TVOC's (ppb)	0	500
✓ CO (ppb)	0	20
✓ CO2 (ppb)	0	500

Aerosol Droplets between 1-10µm

Set LEED Standards

Add Rule Cancel

Palaces!





Aura Air

Breathe easy

We'll take care of the rest



mail@airprotection.co.uk



www.airprotection.co.uk