

# The World's Smartest Compact Air Quality Platform for Health Care



**Nursing & Rehabilitation Homes**



**Healthcare Centers**



# USP's for the Health Care Sector

- Not just a HEPA filter, but a significant virus & bacteria killer
- Very High accuracy sensors built in
- CO and Fire detection & rapid location identification
- Compact and easy to install (cleans 50 sq m)
- Scalable App for monitoring an entire Building
- Intelligent AI for more advanced alerts & control



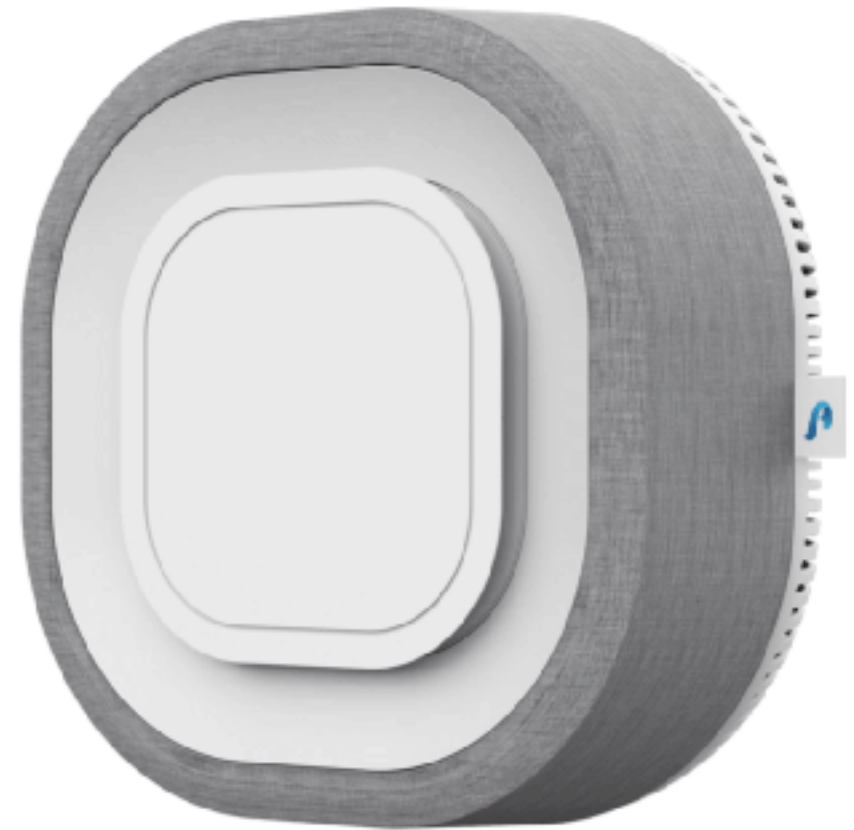
**Nursing &  
Rehabilitation  
Homes**



**Healthcare  
Centers**

# An Industrial strength Intelligent Air Quality Platform

with **4**  
unique  
capabilities...



Aura monitors indoor air quality in real-time through an array of **high precision** sensors which is then compared to real-time Outdoor Conditions

# 1

High Precision Indoor Monitoring Linked to the Outside Conditions



### Indoor

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

Integrated Aura Air Sensors - Monitoring Accuracy		
Measured parameter	Range of measurement	Accuracy/Resolution
TVOC	0-2008 ppb	1 ppb
	2008-11110 ppb	6 ppb
	11110-60000 ppb	32 ppb
Equivalent CO <sub>2</sub>	400-1479 ppm	1 ppm
	1479-5144 ppm	3 ppm
	5144-17597 ppm	9 ppm
	17597-60000 ppm	31 ppm
Dust	0-500 µg/m <sup>3</sup>	Min particle diameter 1µM
CO (carbon monoxide)	0-1000 ppm	1 ppm
Temperature	-40 °C to +125 °C	±0.2 °C/ ±32.36 °F
	-40 °F to 257 °F	
Humidity	0-100 % RH	±2%

### Outdoor

- ✓ CO
- ✓ NOX
- ✓ NO
- ✓ NO<sub>2</sub>
- ✓ O<sub>3</sub> (Ozone)
- ✓ Allergies
- ✓ VOC
- ✓ PM 2.5
- ✓ PM 10
- ✓ Temperature
- ✓ Humidity
- ✓ Weather & Weather forecast

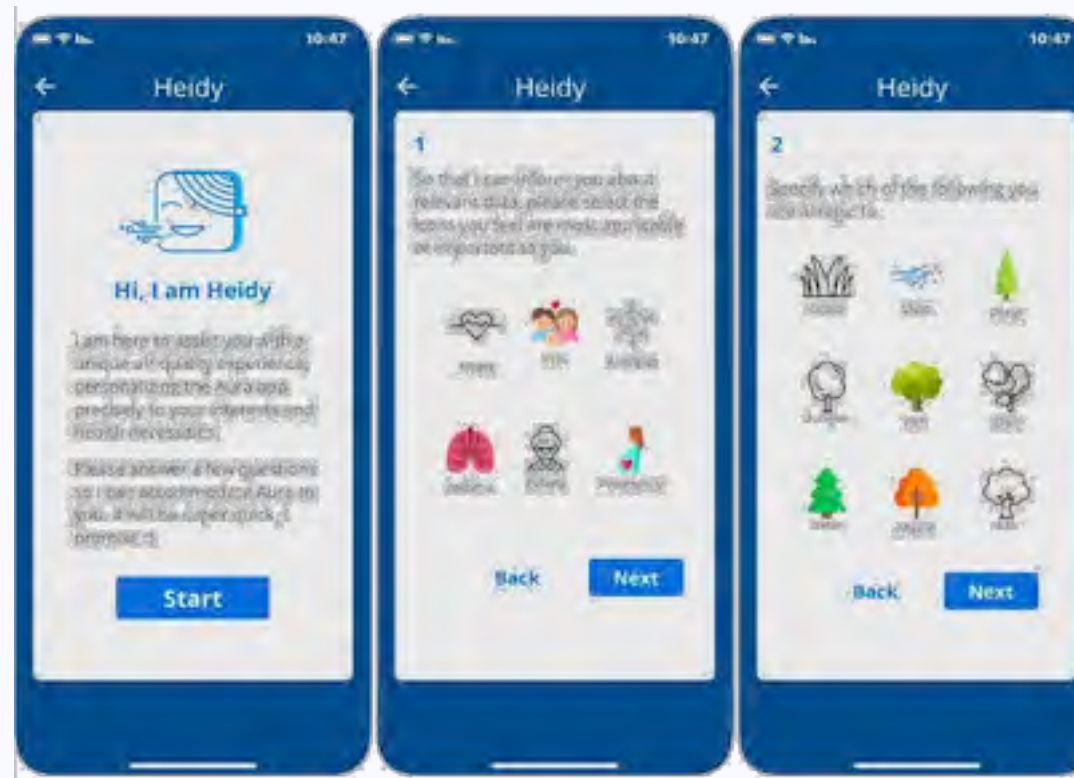


Linked to a leading 3<sup>rd</sup> Party API ...

# 2

## Monitoring Personalisation & AI Feedback

A unique air quality assistant that personalises air quality data precisely to the Hospital's needs and health requirements. After completing the questionnaire, the App will provide relevant recommendations based on each Ward or Hospital or Local Authority's custom profile.



# 3

## Enhanced Filtering & Disinfection

Aura filters and disinfects air - with **TWO** additional and unique Patented processes for **EXTRA** protection

### Pre filter:

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

The Patented **RAY Filter** consisting of three parts:

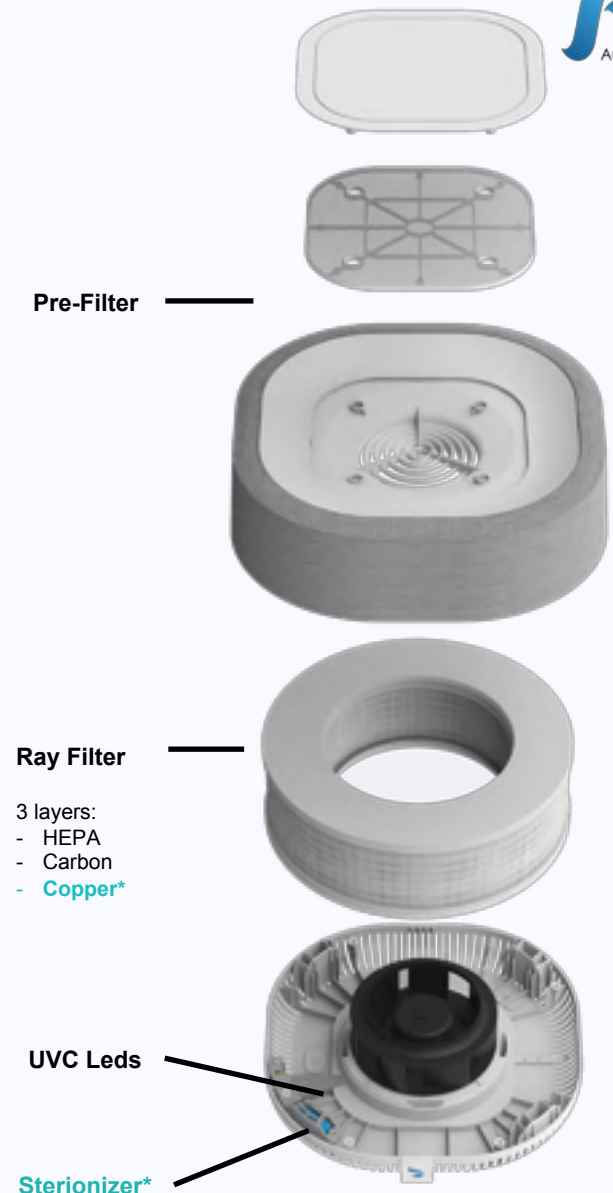
- HEPA - 99.98% effective particle filter down to 0.3 microns
- Carbon layer- absorbs VOC's and bad odors
- **Smart Copper Fabric** – impregnated copper that kills more than 99% of bacteria and 100% of mites & fungus\*

### The 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 **killing 91-99% of Bacteria\***

### UVC 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.



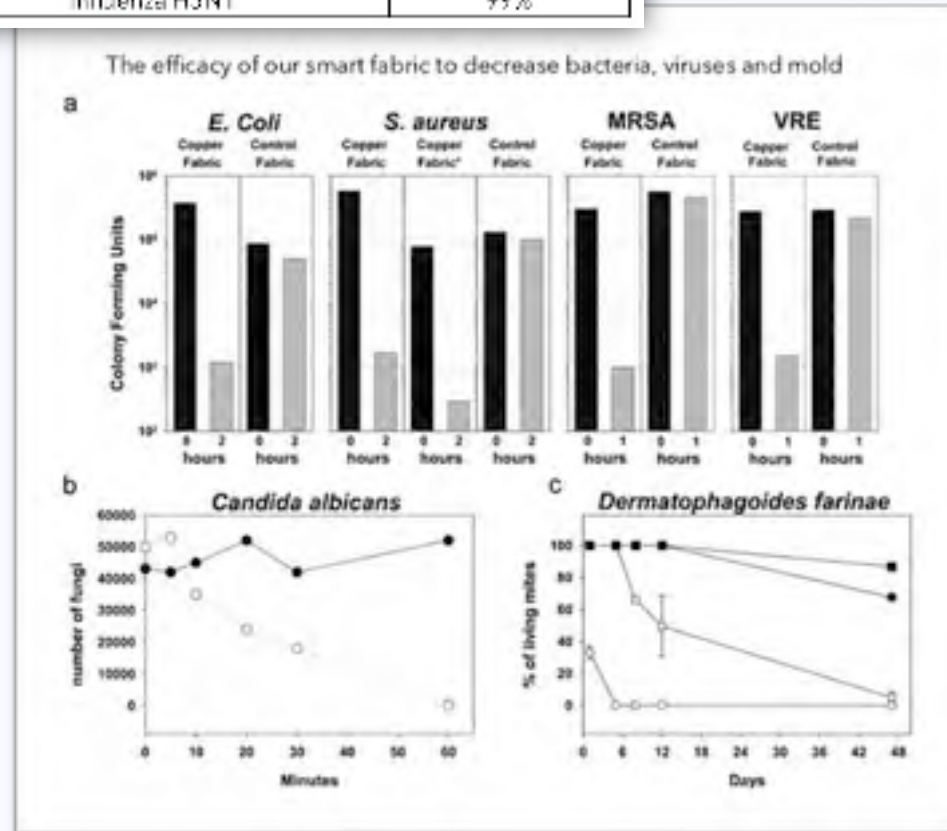
# 3

Enhanced  
Filtering &  
Disinfection

\* Impregnated  
Copper

Substance	Substance name	Removal
Bacteria	Escherichia Coli	99%
	Escherichia Coli ATCC	91%
	Staphylococcus aureus	91%
	Pseudomonas aerug. nosa	99%
	Staphylococcus aureus (MRSA)	99%
Fungus	Aspergillus Niger	97%
	Candida albicans	36%
	Dichobotrys abundans	90%
	Penicillium	95%
Mold	Cladospirium 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 Hospital complex or even a Local Authority**
- Customised insights and recommendations to Doctors and Nurses at a local level
- Improved energy efficiency by advising on ventilation ONLY when there is cleaner air outside!
- Integrated CO and early stage Smoke and **Fire Detection AND rapid location identification**





## Specification

**Air Exchanges Per Hour:**

2.5

**Voltage:**

110-240V auto-switching Power  
Supply

**Format:**

Wall or Ceiling Mount

**Communication:**

WiFi

**Dimensions:**

37.5 cm x 37.5 cm x 15 cm

**Weight:**

3.5 Kg

**Max Noise level:**

64 dB

**Recommended Room Size:**

55 m<sup>2</sup> to filter the room 2.5x per  
hour



**reddot** award  
product design

# Thank you

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