



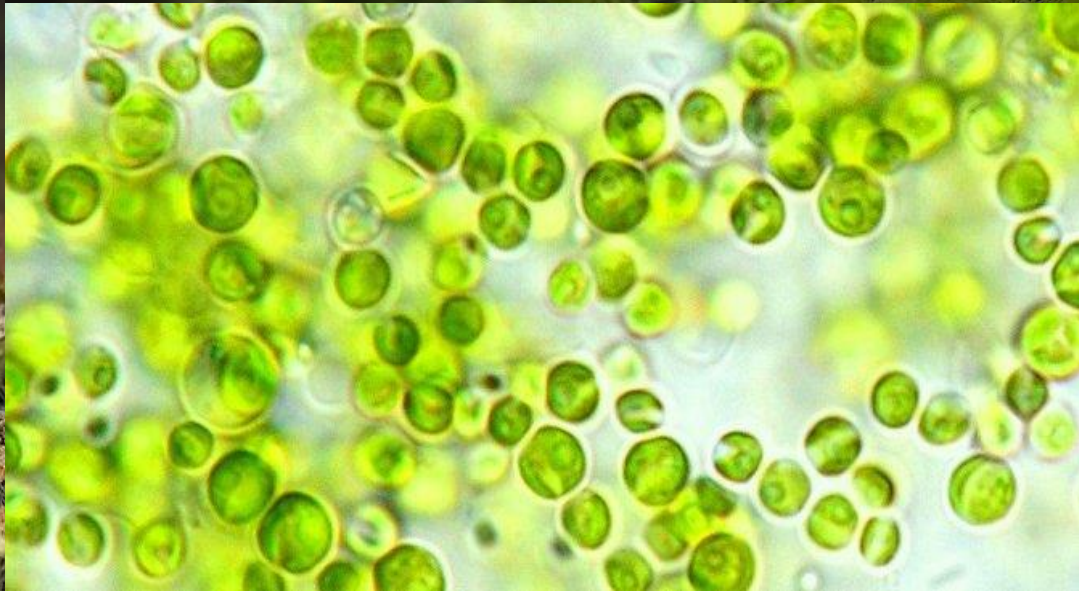
WOOFAA AOB

A l g a l O x y g e n B a r

Brings Forest
Air to City

Harnessing the
20x photosynthesis
power in **microalgae**
like NASA did

Thanks to their 20x photosynthesis rate, **microalgae** & macroalgae supply over **70% oxygen** on Earth since billions years ago



Microalgae tech was studied in **NASA** and **NAVY** as an alternative to oxygen generators

{ Air Revitalization }

Removing CO₂ + Generating O₂ simultaneously



Air Revitalization
Equivalence



Data Conversion Reference:
NAMI.org.hk | NCSU.edu



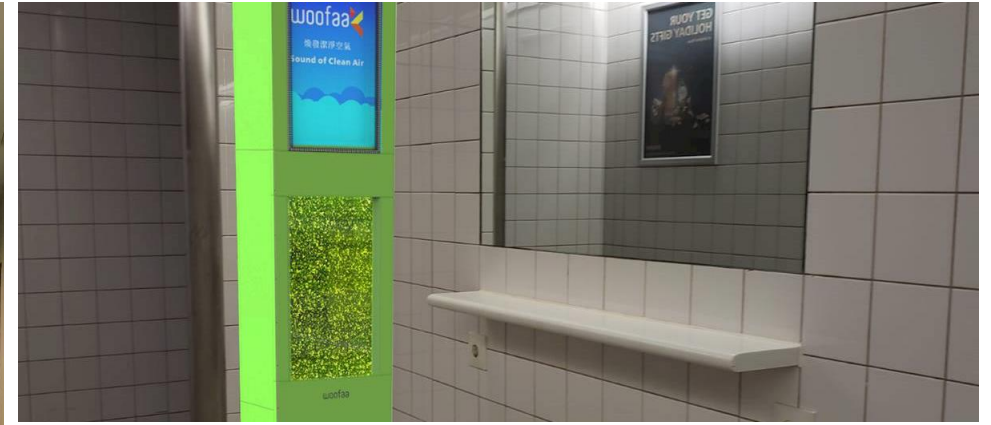
WOOFAA AOB enables green walls to have **real** air revitalization power, with measurable difference

Microalgae fluid inside these 5 tubes are decomposing **3kg CO₂** and generating **600g O₂** daily, equivalent to the power of **50** forest trees



✓ PM2.5	25	ug/m ³
✓ PM10	25	ug/m ³
✓ HCHO	0.00	mg/m ³
✓ VOCs	0.24	mg/m ³
✓ CO2	610	ppm
✓ Temp..	23.5	°C
✓ RH..	61.3	%

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Job References:

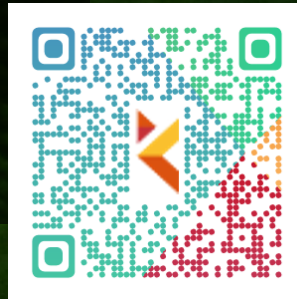
- Sino Group (Inno Lab / Exchange Tower)
- Sun Hung Kai Properties (Uptown Plaza)
- China Light Power (Munsang College / The Hillcrest Elderly Centre)
- More to come...



woofaa
Cleaner Air | 鏗發空氣淨化

WOOFAA AOB Benefits

- Produces 100% pure oxygen and CO₂ simultaneously
- Equivalent to 5 forest trees in room (as per cabinet model WFAOB450)
- Removes other air pollutants like PM2.5 fine dust, NH₃, formaldehyde, O₃, bacteria and virus
- Optional plasma air ionizer for extra purification power on other organic and inorganic odors



WOOFAA AOB

A l g a l O x y g e n B a r

Brings Forest
Air to City

The ONLY greentech
addressing **BOTH**
indoor air quality &
climate change
greenhouse gas problems

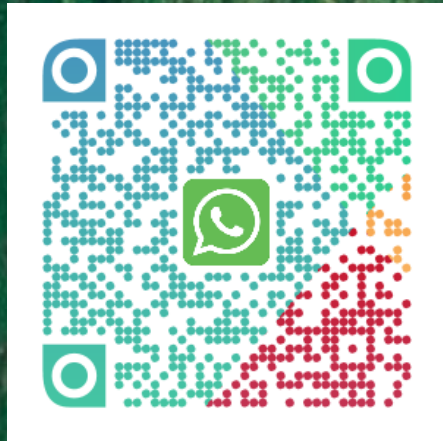
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Air to City



WOOFAA.com



Whatsapp our
Customer
Service

AOB Advertising Cabinet – Technical Specifications

Electrical & Mechanical

Specifications (Model: WFAOB350)

- Size: 450 x 350 x 1900H mm
- Weight (fluid filled): < 60kg
- Algal fluid capacity: < 35 L
- Water changing frequency: < 1 month
- Direct plumbing & drainage connection: preferred and be rewarded with an automated water changing function
- Power supply: 220V AC
- Power rating: < 80 W

Options:

1. LCD Advertising Panel: 330 x 530 x 40D mm, power < 100 W
2. Plasma Air Ionizer chamber inside cabinet (for heavily crowded interior) with a fan (< 200 CMH), power < 10W

Smart IoT+IAQ Features

- Patent-pending automated on-demand (by CO2 and PM2.5 levels) control algorithms of air revitalization rate
- Timer control of Advertising Panel
- Mobile APP management
- OTA (over-the-air) advertising content management

Air Quality Management Specifications

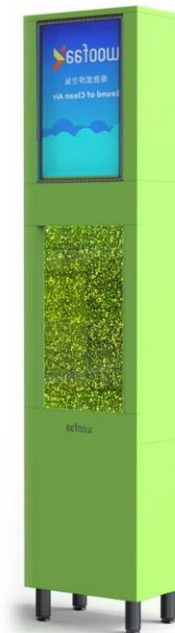
- Monitoring parameters: PM2.5, PM10, CO2, HCHO, VOCs, relative humidity and air temperature
- SD card slot storage for year long data logs
- UVC air sterilization chamber on output air stream

IoT Specifications

- Cabinet Internet connection: LAN or WLAN
- Hybrid edge device comm: Modbus RTU / Zigbee Mesh 2.4GHz
- Robustness: auto restart upon power recovery, pre-defined control logics fail-safe on Internet disconnection
- Built-in 7-day IAQ data charts
- RESTful API OAuth port on cloud server
- Selectable cloud server on AWS or Aliyun

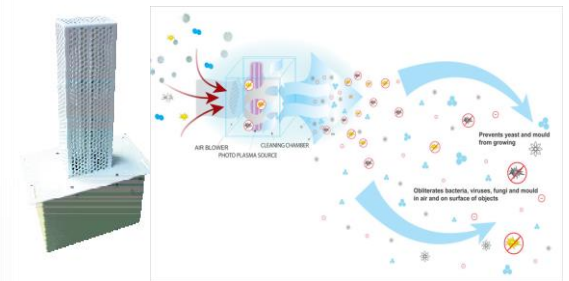
Air Revitalization and Carbon Footprint Specifications

- Forest mass photosynthesis equivalence: 5 forest trees
- Daily photosynthesis rate (14-hr lighting): 500g CO₂, 70g O₂
- Electric Power rating: nominal 40W, with LCD Ads Panel 140W
- Carbon footprint: 300g/day, or 1,010g/day (as per CO2e Intensity = 0.51)
- Data conversion references: ncsu.edu, nami.org.hk, clp.com.hk



About Plasma Air Ionizer

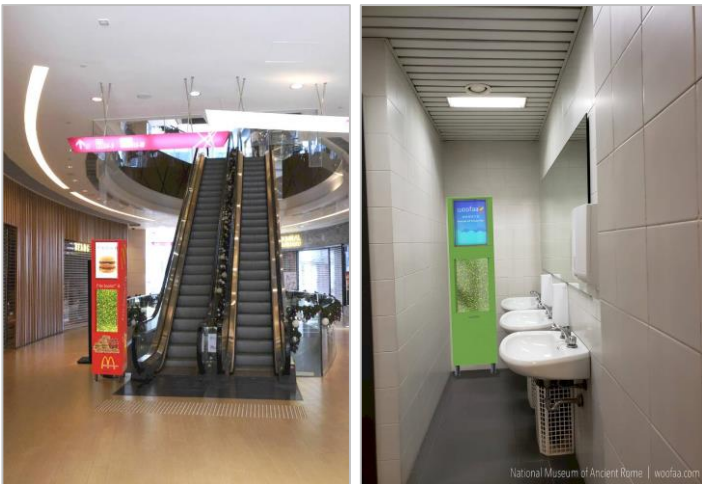
Much like sunlight does in the atmosphere, plasma ionizer produces a natural bio-climate rich in positive and negative oxygen ions. These bipolar ions seek out atoms and molecules in the air to trade electrons with, effectively neutralizing bacteria and virus cells, odorous gases and aerosols, and VOCs.



净化效率

Ozone 臭氧	≤ 0.05mg/m ³
Ultraviolet (device peripheral 30CM) 紫外线 (装置周边30CM处)	≤ 5μm/cm ²
Removal rate of TVOC TVOC去除率	≥ 92.5%
Removal rate of Ammonia 氨去除率	≥ 90.2%
Sterilization rate greater than 除菌率	≥ 97.3%
Addition to aldehyde ratio 除醛率	≥ 92.8%
Benzene removal rate 除苯率	≥ 90.7%

AOB Advertising Cabinet - Commercial Options



Rental (Model: WFAOB450)

WOOFAA to provide:

- Monthly water changing and cabinet cleaning service
- Advertisement OTA content management service
- Smart control and monitoring using mobile APP
- Cabinet delivery and collection in start and end of rental contract

Client to provide:

- Electric power supply, WIFI connection and water changing facility (fixed plumbing and drainage preferred)
- Advertisement content in form of video or images or text or webpage
- An annual rental contract for at least 3 cabinets in the same client site

Buy-out (Model: WFAOB450)

Buy-out of AOB Cabinet. We provide an one-off on-site commissioning service, advertisement content activation, smart control & monitoring using mobile APP (no annual fee), a session of an on-site staff training, user manual, and one-year hardware warranty.

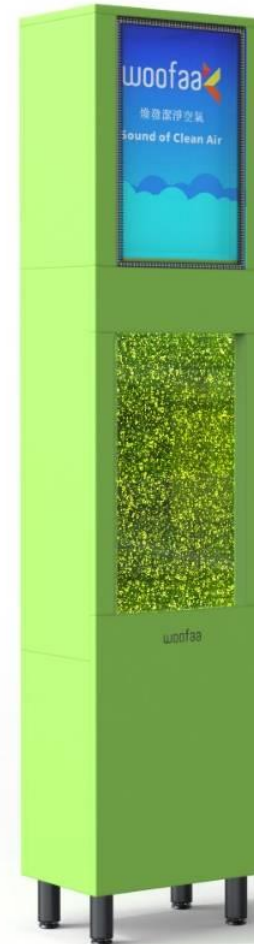
On-call Service

Client may pay-per-trip for our water cleaning or other ad-hoc service.

Cabinet Ad Design & Wrapping Service

(Model: WFAOB450)

WOOFAA can provide cabinet ad design with film production, wrapping and reinstating service included.



Size: 450 x 300 x 1900H mm | Algal water volume: 35 L | Forest tree equivalence: 6 trees