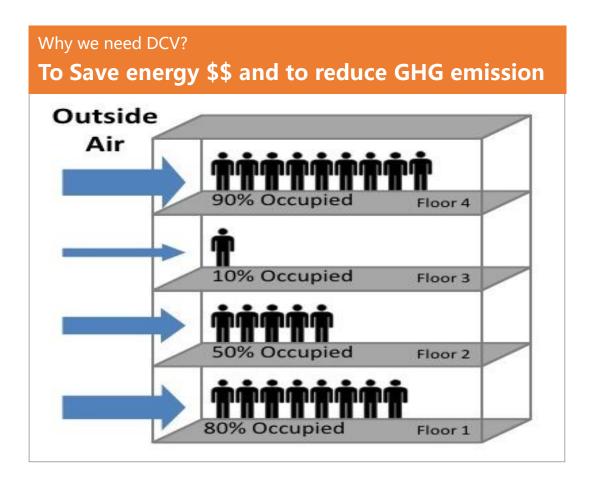


Demand Control Ventilation – Based on VOC, CO₂ & PM_{2.5}

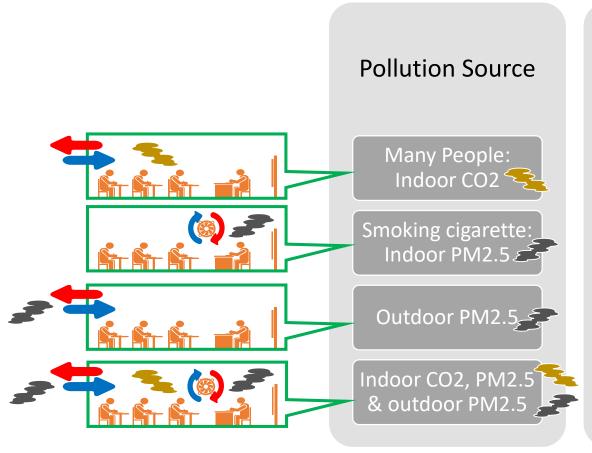


Our DCV Competences:

- Monitor VOC, CO₂ & PM2.5
- Control BOTH internal & external circulations



Control BOTH internal & external circulations



Traditional Solution

Ventilation

Air Purifier

Ventilation

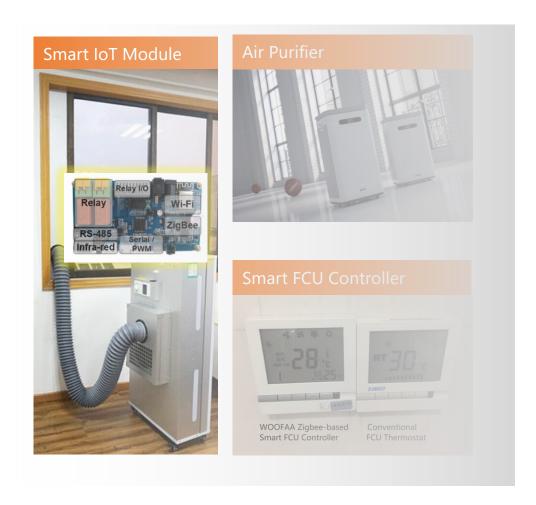
Vent + Air Purifier



Support BOTH public and private cloud-server





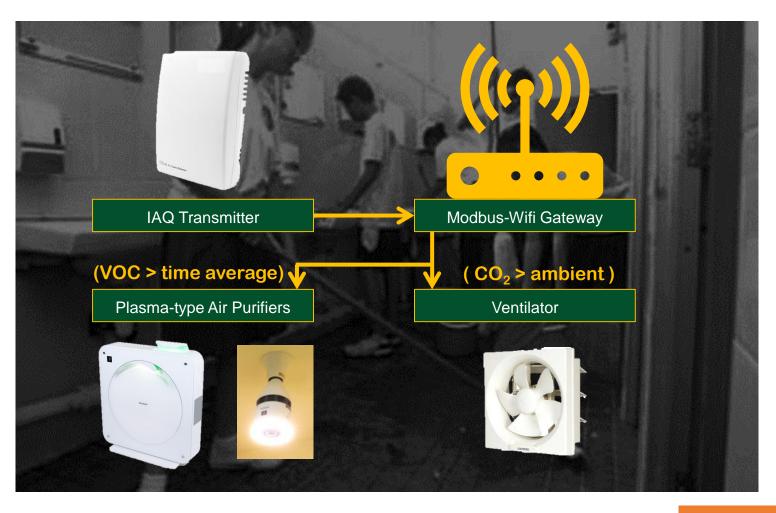


Use Case in School Toilets, Classrooms, Staff Rooms

Pain Points

- Peak usages in multiple 15minute recess breaks
- Unwanted spills

- Power-on ventilator and purifier only when occupancy is detected
- Power-off ventilator, keeps purifier on until smells vanished





Plasma – A proven technology in removing inorganic odors, virus and bacteria

Removal of Clinging Odors

Plasmacluster ions break down and remove cigarette smoke odor components that have seeped into room furnishings in about 80 minutes to an unnoticeable level. These ions also neutralize pet odors and the odor of laundry dried indoors.



High-Density 7000

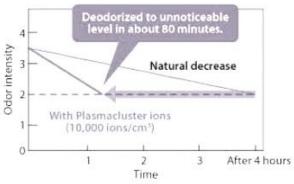
Removal of Clinging Odors

Plasmacluster ions break down and remove cigarette smoke odor components that have seeped into room furnishings in about 60 minutes to unnoticeable level. These ions also neutralize pet odors and the odor of laundry dried indoors.



High-Density 25000

Removal of cigarette smoke odor



- Tested by the Boken Quality Evaluation Institute
- Test method: The effectivenes of deodorizing a cloth swatch impregnated with cigarette smoke odor components was evaluated by using the six-lev odor intensity indication method. (Plasmacluster ion density: 10,000 ions/cm*)
- Test result: Deodorized to unnoticeable level in about 80 minutes.

Removal of cigarette smoke odor



- Tested by the Boken Quality Evaluation Institute
- Test method: The effectiveness of deodorizing a cloth swatch impregnated with cigarette smoke odor components was evaluated by using the six-level odor intensity indication method. (Plasmacluster ion density: 20.000 ions/cm²)
- Test result: Deodorized to unnoticeable level in about 60 minutes.

Use Case in Elderly Houses and Nursing Rooms

Pain Points

- Frequent inorganic odor generation
- Seasonal occupancy changes

- Power-on ventilator and purifier only when occupancy is detected
- Power-off ventilator, keeps purifier on until smells vanished

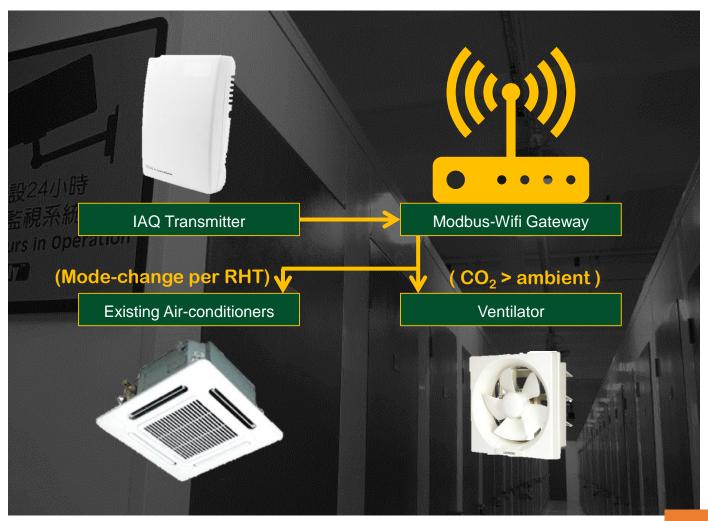


Use Case in Warehouses & Self-service Stores

Pain Points

- Random daily occupancy
- High electric bill for 24/7 airconditioning

- Power-on ventilator only when excessive occupancy is detected
- Increase A/C setpoint in vacant moments, falls back to comfort level when manned
- Monitors RH level to avoid mold growing



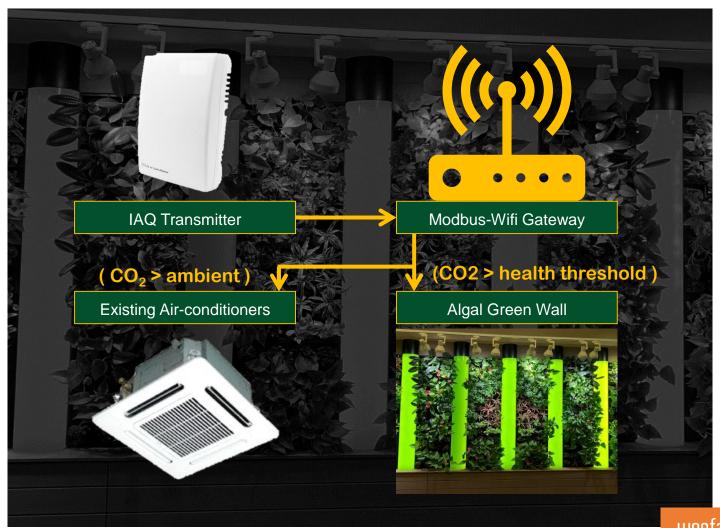


Use Case in Conference Rooms

Pain Points

- Random daily occupancy
- Often overcrowded versus design load

- Increases fan speed to stir air when occupancy is detected
- Activates algal photosynthesis eco-system to decompose CO₂ and generate more O₂





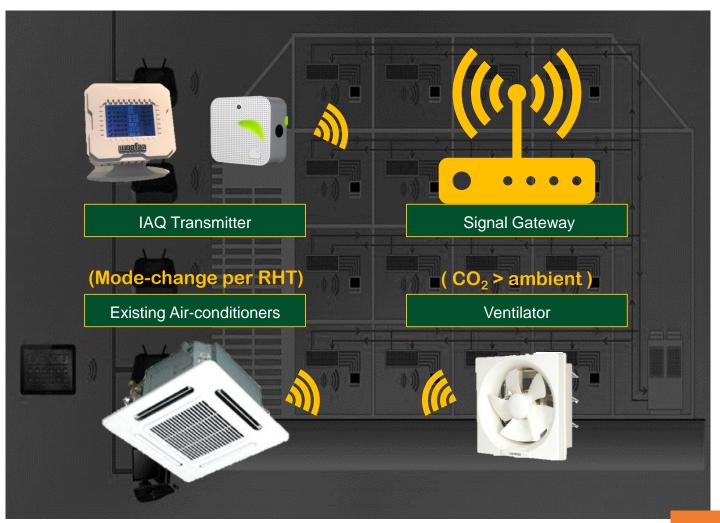
Wireless system on Wifi, Zigbee or Z-wave

When to use Which

Multiple factors (type of occupancy, scale of system, environmental, spatial...) are considered comprehensively.

Experienced Scalability

- One IAQ + One Gateway + One **Appliance**
- Tens of IAQ + One Gateway per building floor + 1000+ Appliance



Half-priced to conventional PLC and DDC systems

System Pricing (US\$)

Basic System Setup:

Conventional PLC/DDC

vs WOOFAA:

\$12,000 vs \$4,000 E



+ install):

\$(250 + 350) = \$600

VS

\$(150 + 150) = \$300 }



Saving (%) & ROI (year)

Energy Bill Saving

Conventional PLC/DDC vs WOOFAA:

15% vs 30%

Return-on-investment (year):

Conventional PLC/DDC vs WOOFAA:

2-4 vs 1-2



Demand Control Ventilation – Based on BOTH CO₂ & PM₂₅



Know Our Team Competence



Our technical team members are formally trained on building services engineering whom know the in-and-out of centralized airconditioning systems in any scales.

> **HVAC Engineers** design, install and service



The WELL Building Standard™ (WELL) is a globally recognized green building institute. It establishes requirements in buildings that promote clean air and minimize sources of indoor air pollution.

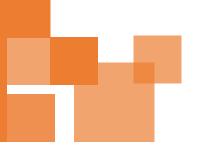
WELL AP

WELL Building Institute



Our founder Marc Chow formerly worked in a Fortune 500 specialzed in building automation systems. He is well-versed in putting smart air controls to work in harmony with other building systems.

> Smart Building Specialist Marc Chow, Founder of WOOFAA



Demand Control Ventilation – Based on VOC, CO₂ & PM₂₅

Pollution Source

Many People: Indoor CO2

Smoking cigarette: Indoor PM2.5

Outdoor PM2.5

Indoor CO2, PM2.5 & outdoor PM2.5

User Biography

Library, Call Centre, Cinema, Hotel Executive Lounge

Smoking Lounge, Joss-burning Temple Chamber

Household in India, Middle East & China cities

Air-conditioned dwellings in cities mentioned above

Adopts various sensor types mounting methods, wired or wireless

















Desktop

Ducttype

Wallmounted

Ceilingmounted

Supports various types of air purification machines and technologies

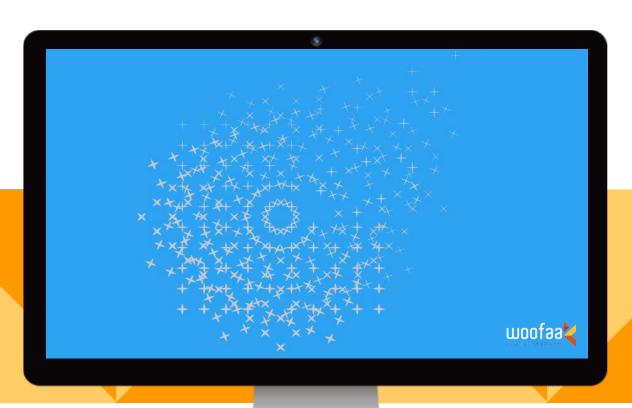








WOOFAA 鏸發



WOOFAA the Sound of Clean Air

WOOFAA develops and distributes ambient air quality monitoring and control products. Our solutions embrace applications for household, educational, communal and commercial sectors.





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