

CT 400 (Roof Type)

CT 400, is an intelligent air purification device that integrates IAQ monitor function. The artificial intelligence modular platform allows users to selected "optional function", customize users' need at ease. The intelligent design saves energy and manpower, with built-in IAQ monitor automatically switches on and off the air purification device in response to changes in IAQ parameters indoor. The sensing IOT module design allows 24/7 remote intelligent management for IAQ parameters via mobile apps and internet. 3-in-1 indoor air purification monitoring device eliminates the tedious installation and control multiple air purifier, hubs and monitors, saving space, and is suitable for interior design of different scenes. The size of CT 400 is 600m x 600m, in same size of each block ceiling, can be easily installed.

**Intelligent Control
3 in 1 Smart IAQ
Purify & Monitor
devices**



Intelligent IAQ Ionizer – Clean Air in 24/7

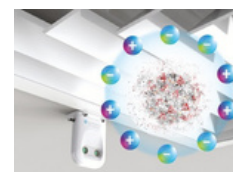
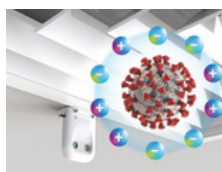
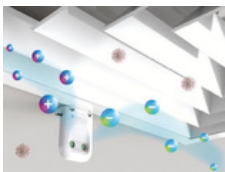
Key Features:

- Bipolar ionization technology can break down pollutants with zero ozone released
- The world's leading bipolar ion technology releases 10^{10} (D5) to 10^{12} (D6)
- Zero maintenance cost, with automatic cleaning, worry-free installation in the HVAC to clean the AHU and air ducts
- Remote Control (on/off by smartphone)
- Customized IAQ parameters
- Automatically measure indoor PM, formaldehyde, temp and humidity, When it exceeds the preset startup value, it will automatically start purification and shutdown when reaches the preset shutdown value,

CT 400 is a real time IAQ monitor & purifier. By monitoring different IAQ parameters and customize air purification settings accordingly, it continuously releases large amount of positive and negative oxygen ions, which is beneficial to human health, deactivate indoor pollutants to improve building's energy efficiency to ensure the health, safety and well-being of occupants. CT 400 equipped with artificial intelligence, operates efficiently and effectively reduce the risk of related respiratory diseases, allergies and other health problems caused by poor indoor air quality.

Application scenario in hospital, school, library, restaurants or different public area.

How Bipolar Ionization Works



1. Ions Generated

CT 400 uses a powerful needlepoint corona discharge system to generate oxygen molecules O_2^+ and O_2^- .

2. Cluster Formed

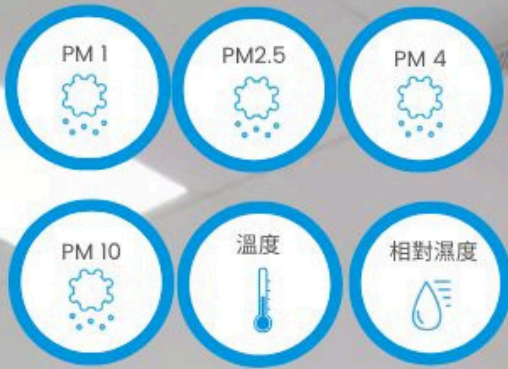
Hydrogen Peroxide H_2O_2 together with OH radicals cluster around harmful pollutants.

3. Structure Broken

H_2O_2 and OH radicals break down the protein structure and render them harmless.

Customized IAQ parameters: more flexible

STANDARD PARAMETERS



OPTIONAL PARAMETERS



Intelligent Control: All-in One IAQ Monitor & Ionizer



Intelligent Control

Modular Intellectual platform with customized IAQ parameters, "Standard parameters" include temp humidity, PM 1, PM 2.5, PM 4, PM 10; "optional parameters" include ozone, formaldehyde and others.



Intelligent De-humidification

Automatically identify indoor temp and humidity, automatically turn on de-humidification if it exceeds set value, automatically shuts down when completed.



Real-time Dynamic Purification

Automatically identify the formaldehyde & PM2.5 level. It will automatically turn on and purify when exceeds the set value; shut down and standby when completed. Personalized settings of on/off settings via mobile App.



Eco Friendly Design

Improve energy efficiency, do not release harmful by-products, ozone released is 1/47 of WHO's recommended level, in line with the company's ESG goals.



Low Operating Cost

With automatic cleaning (D6) and no need to change filter. The operating cost is only 1/5 of repeated antibacterial cleaning.

Features

All-in-One Intelligent IAQ device

Combining advanced purification technologies with real-time monitoring in one device

Intelligent Power On/Off

Remote control by using mobile APP or voice control, for mode setting, scheduled power on/off. The sensing IoT module design to achieve remote intelligent management, real-time monitor and cleaning the air 24/7.

Real-time IAQ Monitor

Real-time monitor of IAQ parameters such as Temp, Humidity, formaldehyde, PM 1/2.5/4/10 etc, with report available for references.

Deodorization

Remove odors, such as oil smoke, cigarette smell, pet smell, etc., and keep the air fresh.

Remove pollutants

High ions level is proven can deactivate harmful pollutants such as TVOC, formaldehyde, PM etc.

Disinfection and sterilization

Proven by lab test can remove 99.9% of coronavirus, 99% of Influenza H1N1, H5N1 etc



Technical Spec.

Dimension	600mm * 600mm * 300mm (Length x Width x Height)	Power Input Voltage	220V 50Hz
Weight	30 kg	Life Expectancy	Product Life 60,000 Hours/60°C
IAQ	<ul style="list-style-type: none"> Standard Parameters: Temp, Humidity, PM 1, PM2.5, PM 4, PM 10 Selected Parameters: Ozone, Formaldehyde and Others 	Operating Temp	-30 °C to +70 °C
Ion Output	10 ^ 10 Ions/sec (D5) & 10 ^ 12 Ions/ sec (D6)	Airflow(fan inside)	≥ 5m
		Area Coverage	50m ^ 2