

# CleanAir™

Breathe Healthy, Be Healthy



**Continuous Safe & Smart**  
Air Monitoring & Purification Solution



CORNERSTONE  
INTERNATIONAL

UNIMECH<sup>™</sup>  
Healthcare

## Importance of indoor air quality

"Indoor air quality" refers to the quality of the air in a home, school, office, or other building environment. Indoor air can be 10 times more dangerous than outdoor air & can have severe health hazards.

## Effects on human health

Health effects associated with indoor air pollutants include:

- Irritation of the eyes, nose, and throat.
- Headaches, dizziness, and fatigue.
- Respiratory diseases, heart disease, and cancer.



## Wide range of air pollutants



H1N1 influenza  
(Swine flu virus)



SARS-CoV-2



Pollen



Dust mite allergens  
mattresses, blankets



Pet dander  
carpets, floors



Staphylococcus skin,  
mucous membranes



DNA viruses  
throughout nature



Bacterial spores  
spoiled food, bathrooms



PM 2.5 & 10



Burnt food smell  
(Furan)



Citrus-scented cleaners  
(D-Limonene)



Detergent  
(Benzene)



Tobacco smoke  
(Formaldehyde)



Cockroach allergens  
trash cans, cupboards



Nail polish remover  
(Ethyl acetate)



Varnish off-gassing  
(Acetone)



Carbon Monoxide



Carbon Dioxide



Hydrogen Sulphide



Formaldehyde



TVOC



Sulfur Dioxide

## Our Strengths



Dedicated Expertise



Own Manufacturing



Stringent Quality Standards



AMC or Prompt Service



Publications in Scientific Journals



Various Certifications

## Our Offering



360° safe & smart air purification and disinfection solution



Real time air quality data monitoring and ways to control



Scientifically backed products for safety and efficacy



Pre & post microbial culture test



Complete solutions for all indoor air needs



Post installation service support

## Our Technologies



# CleanAir™ AQMS

AIR QUALITY MONITORING SYSTEM



Air quality monitoring is an integral part of an effective air quality management system. This helps us to track real time indoor air scenario in terms of various pollutants & microbes. The data derived through **AQMS** can also provide us the control strategies for effective indoor air quality.

## Features

- ✓ Assess the extent of pollutants.
- ✓ Provide air quality data instantaneously.
- ✓ Support implementation of air quality goals or standards.
- ✓ Provide information on air quality trends.
- ✓ Historical data for the evaluation of air quality.
- ✓ Evaluate the effectiveness of solution and provide control strategies.
- ✓ Dashboard with good user interface to monitor data effectively.

## Application Areas



Hospitals



Offices



Schools



Hospitality



Gyms

CleanAir™

**AQMS**  
AIR QUALITY MONITORING SYSTEM



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The smart way to monitor indoor air quality



## Monitoring 12 Parameters

Best in class indoor air quality monitoring



## Technical Information

Operating Voltage	10-30V DC
Operating Current	0.01A
Operating Power	1.5W
Power ON indicator	Yes
UV Light Used	No
Ozone Free	Yes
Working Environment	10-55°C(temp.), 0 - 95%(Humidity)
Weight	350g
Size	170mm (Diameter)
Product material	ABS
Web app based	Yes
Installation Method	Wall Hanging & Ceiling
Colour available	White

# CleanAir™ Emitron

Powered by PMEE technology

Emitron works on principle called “**Photo Mediated Electron Emission**” technology. With 43mA power, it generates 27 trillion electrons in the available environment, thus creating an electrostatic field. In this electrostatic field, electrons attract any positively charged matter and attached itself with it, thus neutralising the matter.

## Features

- ✓ 99.99% effective against viruses, bacteria & fungi.
- ✓ Highly effective against air & surface pollutants.
- ✓ Reducing carbon-based compounds.
- ✓ Zero ozone emission.
- ✓ Plug & play – easy to install / normal electric power usage.
- ✓ Certified by national & international agencies.
- ✓ Effectively covers an area of 400 sqft.
- ✓ Available in multiple color options

## Application Areas



Hospitals



Offices



Schools



Hospitality



Gyms

CleanAir™

Emitron

Powered by PMEE technology

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Zero  
Maintenance



Safe for  
Humans



Safe for  
Animals



Safe for  
Environment

## Technical Information

Operating Voltage	220-240V AC
Switching frequency	15-20kHz
Operating Current	0.35A
Operating Power	82W
Power ON indicator	Yes
UV Light Used	No
Ozone Free	Yes
Operating Temperature	10-55°C (Dynamic)
Product material	Non-Conductive PP & FRCL-12
Installation Method	Ceiling
Colours available	Pure White, Slate Grey, Luminous Orange, Ruby Red & Gentian Bue

## CleanAir™ Air-O-Clean

Powered by OxiWipe™ technology



Air-O-Clean is powered with **OxiWipe** technology. **UVGI** technology helps in killing 99.99% of viruses, bacteria & mold available in the installed environment UVGI in addition with  $TiO_2$  results in a process called oxidation, thus ensuring that the air does not become dry. First time in India a ceiling mounted air purifier with almost zero maintenance.

### Features

- ✓ 99.99% effective against viruses, bacteria, fungi.
- ✓ Highly effective against air & surface pollutants.
- ✓ Zero ozone emission.
- ✓ India's first ceiling mounted air purifier.
- ✓ Effectively covers an area of 1000 sq. ft.
- ✓  $TiO$  for effective oxidation.
- ✓ Plug & play – easy to install / normal electric power usage.
- ✓ Certified by national & international agencies.

### Application Areas



Hospitals



Offices



Schools



Hospitality



Gyms



CleanAir™

Air-Clean™

Powered by OxiWipe technology



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First time in India  
ceiling mounted  
air purifier  
with coverage of  
1200 sq. ft.



### Technical Information

Operating Voltage	220-240V AC
Switching frequency	50-60Hz
Operating Current	0.74A
Operating Power	160W
Power ON indicator	Yes
UV Light Used	Yes
UVC Wavelength	254nm
Ozone Free	Yes
Switch Cycle	9000 Cycle
Operating Temperature	10-80°C
Weight	5kg
Size	(595x595x150)mm
Product material	Aluminium
Flying Cable	1.5m
Remote Controlled	Yes
Installation Method	Ceiling
Colour available	White

## CleanAir™ Air-Clean®

Powered by OxiClean technology



**Air-O-Clean Plus** is powered with OxiClean technology. UVGI technology helps in killing 99.99% of viruses, bacteria & mold available in the installed environment. UVGI in addition with TiO<sub>2</sub> results in a process called oxidation, thus ensuring that the air does not become dry. HEPA filter is highly effective in capturing pollutants at almost 99% capacity. Carbon filter is highly effective against smoke & odor. Silver ionized filter helps in neutralizing any positively charged matter. It comes with an option of remote or application-based control.

### Features

- ✓ 99.99% effective against viruses, bacteria, fungi.
- ✓ Highly effective against air & surface pollutants.
- ✓ Zero ozone emission.
- ✓ Reducing carbon-based compounds.
- ✓ Effectively covers an area of 1200+ sq. ft.
- ✓ Effectively removes smoke and odour.
- ✓ Five stages of air purification.
- ✓ TiO<sub>2</sub> for effective oxidation.
- ✓ India's first ceiling mounted true air purifier.

### Application Areas



Hospitals



Offices



Schools



Hospitality



Gyms



**First time in India  
 ceiling mounted  
 air purifier  
 with coverage of  
 1200 sq. ft.**



### Technical Information

Operating Voltage	220-240V AC
Switching frequency	50-60Hz
Operating Current	0.78A
Operating Power	170W
Power ON indicator	Yes
UV Light Used	Yes
UVC Wavelength	254nm
Ozone Free	Yes
Switch Cycle	9000 Cycle
Operating Temperature	10-80°C
Weight	8kg
Size	(595x595x180)mm
Product material	Aluminium
Flying Cable	1.5m
Remote Controlled	Yes
Installation Method	Ceiling
App based	Yes
Colour available	Black

# CleanAir<sup>™</sup> Split AC - Retrofit

Powered by UVGI technology



**Split AC Retrofit** works on a technology called **UVGI – Ultraviolet Germicidal Irradiation.**

UV rays are used to kill or inactivate microorganisms by destroying nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions.



## Features

- ✓ 99.99% effective against viruses, bacteria, fungi.
- ✓ Reducing carbon-based compounds.
- ✓ Highly effective against air & surface pollutants.
- ✓ Effectively covers an area of 300 sqft.
- ✓ Zero ozone emission.
- ✓ Certified by national & international agencies.

## Application Areas



Hospitals



Offices



Schools



Hospitality



Gyms

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## Split AC - Retrofit

Powered by UVGI technology



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### Technical Information

Operating Voltage	220-240V AC
Switching frequency	50-60Hz
Operating Current	0.2A
Operating Power	40W
Power ON indicator	No
UV Light Used	Yes
UVC Wavelength	254nm
Ozone Free	Yes
Switch Cycle	13000 Cycle
Operating Temperature	10-80°C
Weight	1.5kg
Product material	ABS & Aluminium
Remote Controlled	Yes
Colour available	Black

# CleanAir™ AHU Purifiers

Powered by UVGI technology

AHU purifier works on a technology called  
**UVGI – Ultraviolet Germicidal Irradiation.**

UV rays are used to kill or inactivate microorganisms by destroying nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions. AHU purifiers are highly efficient in a HVAC system & helps in reducing operating costs.

## Features

- ✓ 99.99% effective against viruses, bacteria, fungi.
- ✓ Highly effective against air & surface pollutants.
- ✓ Zero ozone emission.
- ✓ Reducing carbon-based compounds.
- ✓ High efficiency shown in HVAC Systems
- ✓ Saves operating costs for HVAC systems
- ✓ Certified by national & international agencies.

## Application Areas (HVAC systems) in



Hospitals



Offices



Schools



Hospitality



Gyms

# CleanAir™

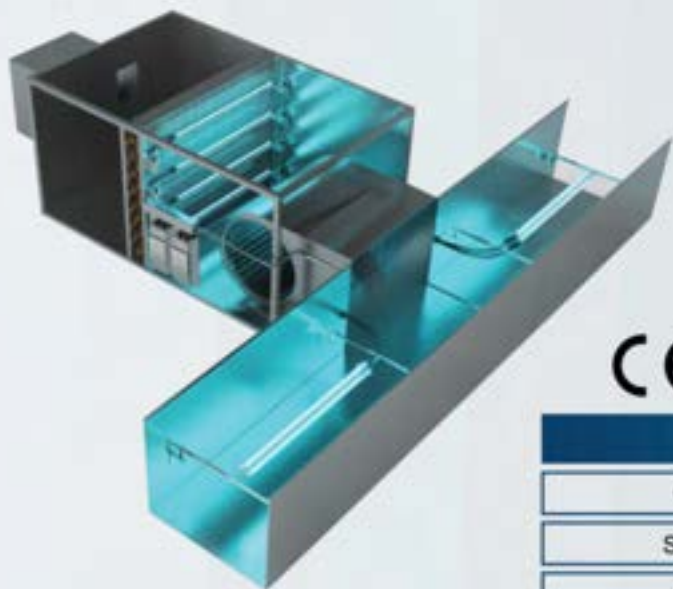
## AHU Purifiers

Powered by UVGI technology



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### Technical Information

Operating Voltage	220-240V AC
Switching frequency	50-60Hz
Operating Current	1A
Operating Power	260W
Power ON indicator	No
UV Light Used	Yes
UVC Wavelength	254nm
Ozone Free	Yes
Switch Cycle	9000 Cycle
Operating Temperature	10-80°C
Weight	9kg
Size	(1600x1000x250)mm
Product material	Mild Steel
Flying Cable	1.5m
Colour available	Black



**CORNERSTONE  
INTERNATIONAL**

## **Cornerstone International**

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