

# Room Air Sanitizing & Purification Unit

MODEL-CH-3000



## Product Information

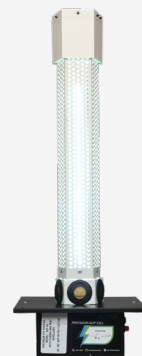
Introducing our revolutionary Ceiling Hung air purifier, the pinnacle of indoor air quality innovation! Designed to elevate your living or working environment. By addressing Bacteria, Virus, mold spores, Particulate, Harmful gases and other airborne contaminants, our ceiling-suspended air purifier provides comprehensive air purification in a single equipment, promoting a cleaner, healthier indoor environment for you and your loved ones.



a) Pre Filter



b) Electrostatic Filter



c) AOP CELL



d) Carbon Based Chemical Filter - Ultrasorb



e) Self Charging

## a) Pre Filter

A pre-filter serves as the first line of defense. It captures larger particles, extending the lifespan of the main filters and reducing the frequency of filter replacements or maintenance. It helps to improve the overall efficiency of the air purification system by allowing the main filters to focus on removing smaller particles, allergens, pollutants, and odors from the air.



## b) Electrostatic Filter

The multi layer of the self-charged electrostatic filter media reduces indoor particle pollutants such as dust smoke, pollens, pet dander, dust mites, etc. that circulate through the HVAC system. This washable and reusable filter protects people from indoor pollutants everyday.



## c) AOP Cell

Our nanoX & plasmOX technology harnesses nature's ability to clean the air and recreates the natural, safe and effective process that purifies the air. The ultraviolet light, reacts with a thin film of catalyst, in the presence of water, creating hydroxyl radicals and super-oxide ions. These ions attach to the surface of air pollutants, oxidizing volatile organic compounds (VOCs), bacteria, and viruses by naturally removing the hydrogen from the molecular structure. This results in the elimination of air pollutants, resulting in cleaner fresher air.



## d) Carbon Based Chemical Filter - ultraSORB

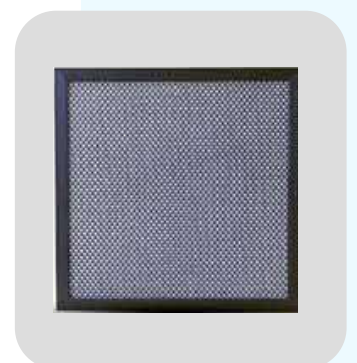
ultraSORB® 002 Activated Carbon is a steam-activated extruded carbon, designed specifically for gas phase applications. Through the activation process, it develops an ideal pore size distribution, enhancing its adsorption capabilities and leading to high removal efficiency for contaminants found in moderate concentrations in gas streams. The extruded particle shape allows for minimal pressure drop across the filter, making it highly suitable for applications requiring rapid adsorption kinetics.



## e) Self Charging

The self-charging filter works by applying an electric charge to the filter media, which then attracts particles as they pass through the air purifier. This process effectively traps dust, allergens, and other pollutants, improving indoor air quality.

One of the advantages of a self-charging filter is its long-term effectiveness and low maintenance requirements. Since it can continuously recharge itself, it remains efficient in capturing airborne particles over an extended period without the need for manual intervention.





## Product info

Type of filter	Stage 1 – 10Micron Pre Filters Stage 2 – Electrostatic Filter with Electrical Power Stage 3 – Plasma Equipment with filtration Stage 4 – Matrix Based Carbon filter with chemical dosing for Multiple gas Stage 5 – High-density polypropylene, Nano Membrane
Functional Technique	Based on Plasma and Nano Membrane based technology



## Performance Parameter

Filtration/Disinfectants Efficiency	>99 %
Air Filtration/Disinfectants Type	<b>Particulate Contamination</b> <b>Microbial Contamination:</b> Bacteria, Virus, Mold, Spores <b>Gaseous Contamination:</b> Formaldehyde, TVOC & Hazardous Gases
Visual alarm of operating device for disinfection	Yes
Activated Filter Life, Minimum	18 months
Electrostatic filter life, Minimum	7 Year to 10 Year
Control options	Both Option with Touch & Remote Controller
Absorbing & filtration Capacity of particles size at 0.1 micron level	Chemical based Carbon filter for the filtration is provided inside the Equipment



## Electrical Parameter

Power Supply	230 +/-10 V AC
Power Consumption Air sterilizer unit, Watt	>200 (320 Watt approximate)
Input frequency	50Hz



## Technical Specification

Fan speeds levels , Minimum	4 Speed (Multiple Speed Provided)
Volume of the room can be disinfectant by Machine (cubic feet)	upto 2000 sq.ft.
Sanitised air flow rate, Maximum	3530 CFM – 4120 CFM
Absorbance capacity Activated Carbon Filter has Multi-layer of multiple gas Absorbents	Matrix Based Carbon filter with chemical dosing for Multiple gas



## Additional Parameter

Cleaning of the Electrostatic filter	4 Speed (Multiple Speed Provided)
Color	Off White
Mounting options	Ceiling Mounting
Photo Catalytic Sterilization Feature	Yes Oxidization based Catalytic System used



## Dimension and Size

Length	950mm
Width	850mm
Height	850mm
Weight	35 kilogram



## Warranty & Maintenance

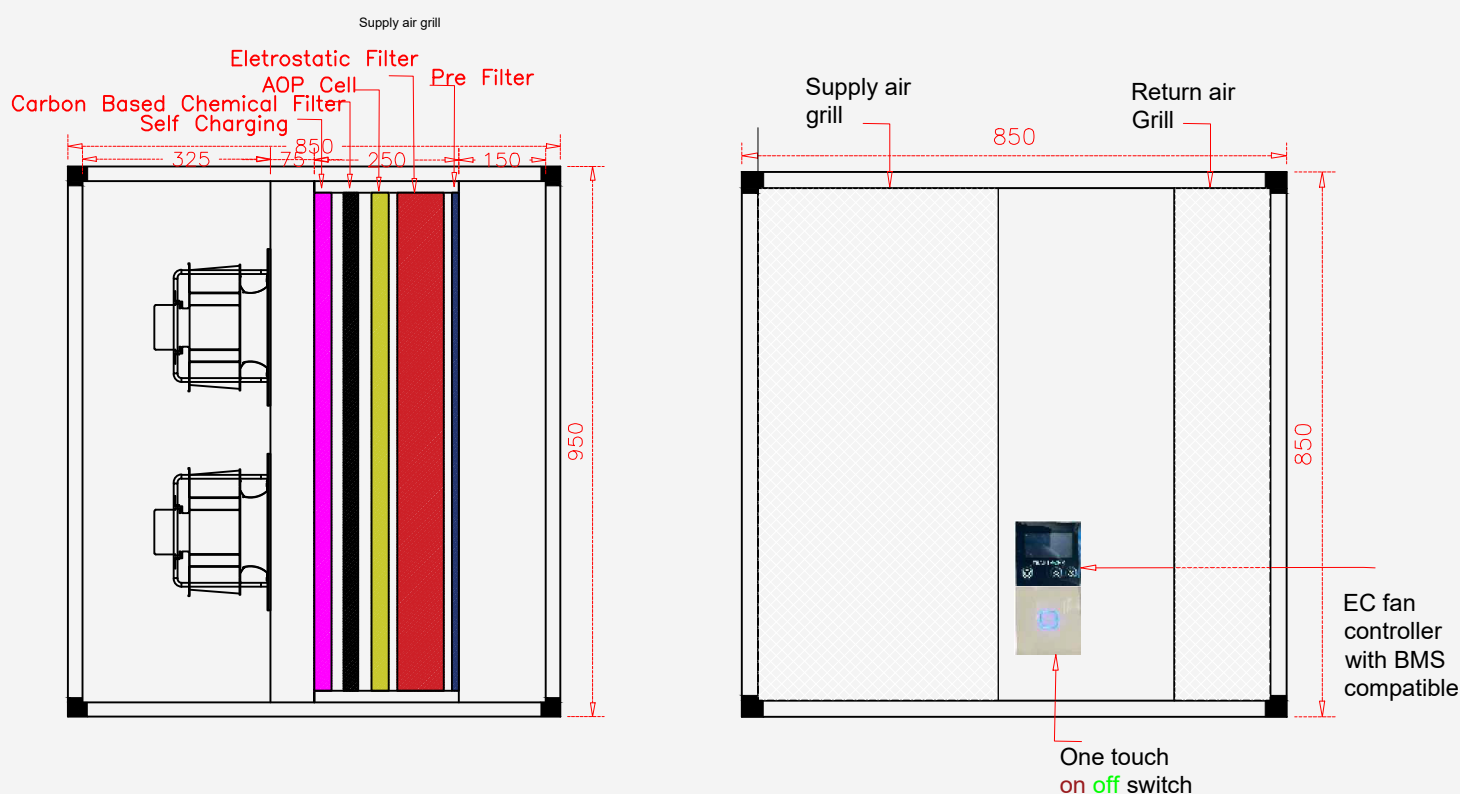
Installation & operating manual provided by supplier	Yes
Warranty Period	2 year
Operation & Maintenance Provided by Supplier during the warranty period	Yes ( Remote Maintenance Services will be provided)



## Certifications & Reports

Copies of reports and certifications to be furnished to buyer on demand at time of supplies	4 Speed (Multiple Speed Provided)
Certifications	CE, FDA, TUV, FICCI, CCMB, EQUINOX, ROHS, ISO, IGBC - GreenPro
Availability Of Test Report From Central Govt/Sate Govt/Nabl/Ilac Accredited Lab To Prove Conformity To Specification	Yes (This is provided at the time of Dispatch if required)
Manufacturer certifications	ISO 13485, ISO 9001:2015

## Schematic Drawing



## ULTRAPURE ENVIROCARE PRIVATE LIMITED

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