

BIO-DC



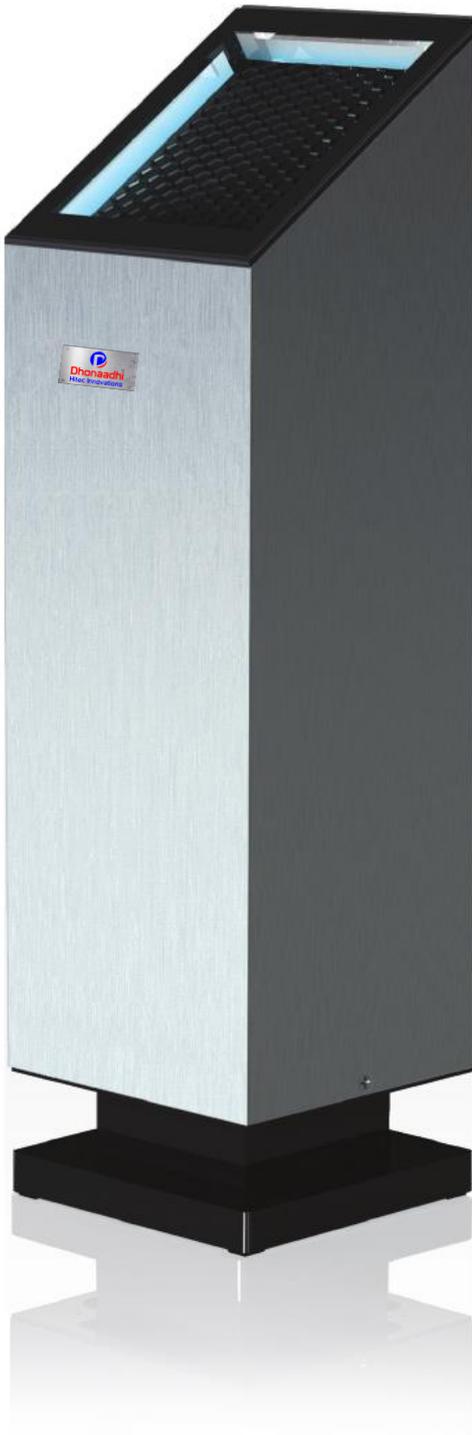
DhonaadhiTM
Hitec Innovations

UVC + PLASMA CLUSTER AIR DISINFECTOR

Model: C333/C666/C999

CORONA KILLER

DUAL STAGE GERMICIDAL AIR DISINFECTION



NO MORE HANDLING OF HAZARDOUS CHEMICALS IS REQUIRED TO DISINFECTOR AIR

BIO-C

UVC + PLASMA CLUSTER AIR DISINFECTOR



As Covid-19 spread and took dangerous dimensions, there was a need felt for a smart air disinfection and sanitation tunnel that could disinfect a person fully from head to toe in a very short time span through a solution which is completely harmless.

The Sun's rays play a vital role in purifying the Earth's air. Ultraviolet light irradiates the atmosphere, destroying biologicals (UV-C wavelengths). LOKOZO has successfully replicated this natural process and developed proprietary technology to purify the air you breathe at home.

We spend 90% of our time indoors, most of it at home. We like to think the air within our home is clean but, surprisingly enough, it is not.

Many of us use filters in our home ventilation system in the hope of removing harmful particles from the air.

Biological and chemical contaminants such as mold, bacteria, viruses, allergens, cooking and pet odors, cigarette smoke, and a host of other air-borne pollutants pass through even the highest-efficiency filters like sand through a tennis racket.

Environmental Protection Agency (EPA) studies of human exposure to air pollutants indicate that indoor levels of pollutants may be up to 100 times higher than outdoor levels and that these contaminants continually circulate throughout the home.

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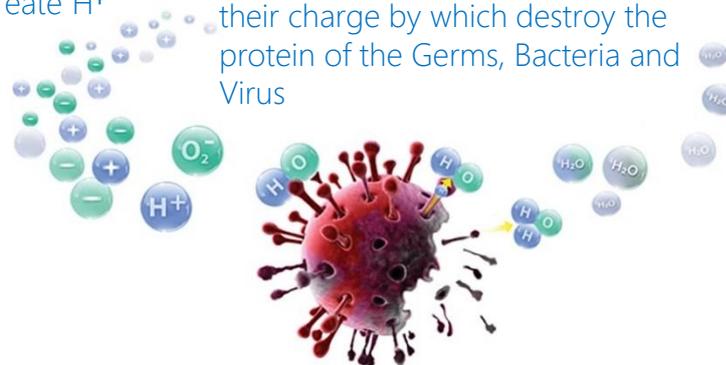
HOW DOES PLASMA CLUSTER WORK?

HIGHER CONCENTRATIONS OF PLASMA CLUSTER IONS BOOST VIRUS INACTIVATION AND ELIMINATION, INHIBIT OF BACTERIA, VIRUS AND PATHOGEN BY 99.9% IN TEN SECONDS AT AN ION CONCENTRATION OF APPROXIMATELY 3000,000 IONS/CM³.

Step 1. Plasma Cluster ions are Boosted into the air which create H⁺ & O₂⁻

Step 2. H⁺ & O₂⁻ are stick to Germs, Bacteria & Virus (COVID-19) and Plasma cluster ions neutralize their charge by which destroy the protein of the Germs, Bacteria and Virus

3. Plasma Cluster ions Return back to air as Vapor



Germs, Bacteria & Virus

PLASMA CLUSTER ION EMISSION :

BIO-C Air disinfectant machine generates Plasma cluster ions charged ions at approx. hundred millions per 8 second emission rate that are electro statically attracted to positively charged airborne particles and aerosol droplets and attaches to them in large numbers. Plasma Cluster ions are Boosted into the air which create H⁺ & O₂⁻

EFFECT ON GERMS, BACTERIA & VIRUS:

Plasma cluster ions generated by the BIO-C form clusters around micro particles such as airborne mold, COVID-19 or influenza viruses, mite allergens, bacteria, pollens, dust etc. and render them inactive through a chemical reaction by creating highly reactive OH groups called hydroxyl-radicals and H₂O₂ which are highly reactive and known as atmospheric detergents.

IONS TURN INTO WATER AND RETURN TO THE AIR AS VAPOR:

The Plasma cluster ions surround the hemagglutinin (surface proteins that form on organisms and trigger infections) and change into highly reactive OH groups which takes a hydrogen molecule from the hemagglutinin and change into water (H₂O). The hemagglutinin molecules are destroyed so the virus become deactivated.

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As a matter of fact, environments and premises used in food processing need to be disinfected to keep the hygiene and quality standards, typical of this sector, high.

With BIO-C , it is possible to achieve the disinfection of production, processing, storage, etc. areas. in a simple, immediate and secure, without developing heat, without the use of liquids and chemicals and without any contraindications. BIO-C achieves the abatement (99%) of bacteria such as Bacillus, Coli, Clostridium, Legionella, Vibrio, Salmonella, Pseudomonas, Staphylococcus, etc. in just a few minutes of operation.

The BIO-C series includes a wide range of wall or wheeled purifiers, different according to the UVC lamps power and size. The BIO-C has a epoxy powder-coated bearing structure in extruded aluminium sheet and a front cover with micro-holes, allowing air to enter and exit at both ends, making it pass through the different stage of filters.

The germicidal chamber houses the UVC LED lamps and is built with a special very pure mirrored aluminium, which amplifies the disinfecting power of the lamps.

The BIO-C is ready for use and does not require any special maintenance except for the periodical replacement of the lamps, it is entirely built in INDIA, with high quality and extremely resistant materials.



Hospital



Office



Hotel



Kindergarten



Conference Room

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The **BIO-C**, with integrated external UVC LED lamp, apart from the function of purifying in presence of people as so far described (operational or daylight phase), provides for the possibility to light the UVC externally integrated lamp to deeply disinfect the surrounding air and surfaces, by radiating them directly (in the non-operational or night phase, immediately before the use of the premises). The two switches can also be managed separately, using a common programming clock.

A **BIO-C** UV Air Purifier is the most advanced purification system available – a purifier that destroys biological and chemical contaminants. It is self-cleaning and maintenance-free – and comes with the most comprehensive warranty and longest effective lamp life in the industry.

The **BIO-C** allows deep air disinfection in any type of food environment. Traditional cleaning methods are, often, not sufficient to ensure high levels of hygiene, which can be achieved only by the use of UV-C technology. The big advantage of this machine is the ability to deal with the air of a room, 24 hours a day, without any contraindication for the staff present. Only a continuous disinfectant action can ensure the security to maintain the microbial load always under control; on the contrary, an intense, but uneven, disinfection results in a fluctuating level of germs present in the environment.



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TECHNICAL FEATURES

- UV-C Light Progress selective tube (emission peak 250 nm to 275nm) with high yield, ozone free, very pure quartz.
- Dual Stage AIR Disinfection
 - UVC AIR Disinfection
 - Plasma Cluster Air Disinfection
- In-Built Plasma cluster ions booster to inactivation and elimination COVID-19
- Inner germicide mirrored chamber in very pure germicide aluminium
- Extruded lacquered aluminium body varnished with epoxy powders.
- Use in presence of people.
- Continuity of treatment 24/24h - High power UVC
- All materials are tested to resist to intense UVC rays.
- In-built Power supply with electronic specific for UVC lamps and Plasma Cluster Ion Booster

FEATURES	BIO-C333	BIO-C666	BIO-C999
Air Purifier Type	Air Purifier	Air Purifier	Air Purifier
Coverage Area	925 Sq. Ft.	1850 Sq. Ft.	2475 Sq. Ft.
Installation Type	Portable	Portable	Portable
Clean Air Delivery Rate (CADR)	333 m ³ /hr	666 m ³ /hr	999 m ³ /hr
No. of Filters	4	4	4
Air Purifier Filter Types	Germicidal by UVC and Plasma cluster Filter	Germicidal by UVC and Plasma cluster Filter	Germicidal by UVC and Plasma cluster Filter
Noise Level	64 dB	120 dB	200 dB
Fan Speed Selection	4	4	4