



BI-POLAR IONIZATION

(PLASMA) AIR PURIFIER / STERILIZER BP-50

The Bipolar Ionization process produces a large amounts of charged ions that attach to, and deactivate harmful substances like bacteria, mold, allergens, and viruses.

It has been used in Europe since the 1970s and was used originally to control pathogens in food manufacturing and storage.

The ions produce a chemical reaction on the cell membrane surface that inactivates the virus. It can reduce up to 95% of microbes in minutes. It is an Active Process that provides continuous disinfection.

The ions also attach to expelled droplets and dust particles that can transport viruses, enlarging them in a process called agglomeration, which makes them easier to be caught in the filters.

Bi-Polar ionisation has already been proven as effective against various influenza strains as well as norovirus, SARs and other corona virus like H1N1.

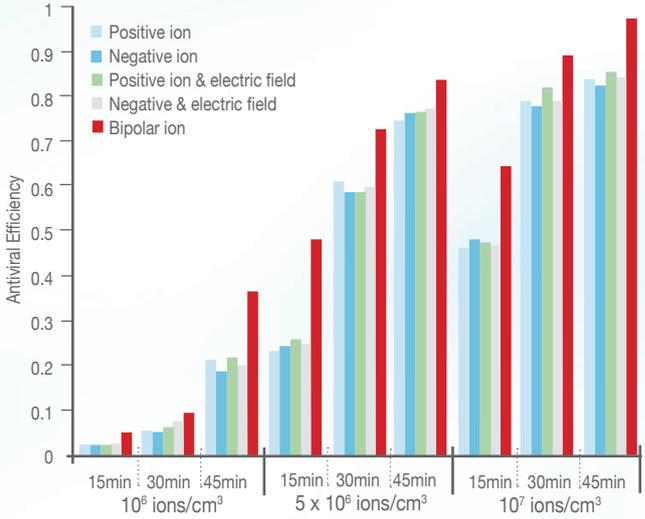
Bi-Polar Ionisation is experiencing a surge in popularity as the coronavirus pandemic fans concerns about air quality in homes and offices.



Uvi-Aire's BP-50 is a low cost portable Bi-Polar air sterilizer designed for use in areas up to 300 sq ft. It has a built-in fan that distributes ions out to the room for active cleaning.

It is simple to operate with minimum maintenance. The ion brushes inside need to be cleaned once every 6 months, with a light brush to remove any dust accumulation.

Test conducted by Journal of Aerosol Science 107 (2017) 31-40 on "Application of corona discharge generated ions for filtration of aerosolized virus & inactivation of filtered virus" showed :
When the ionizer was operated in a bipolar mode, the number concentrations of positive and 6.6×10^6 ; $3.4 \times 10^6 / \text{cm}^3$, negative ions were and ions respectively, and the antiviral efficiency were 64.3%, 89.1%, and 97.4% with exposure times of 15 min, 30 min, and 45 min, respectively.



³Journal of Aerosol Science 107 (2017) 31-49

ELIMINATE AIR AND SURFACE-BOUND VIRUS AND BACTERIA



- SANITIZE**
Eliminate surface-bound germs
- STERILIZE**
Eliminate airborne germs
- REVITALIZE**
Freshen indoor air
- PURIFY**
Eliminate airborne allergens

Applications:

Homes	Offices
Clinics	Classrooms
Gymnasium	Banking Halls
Kindergartens	Child Care Centres
Cafes	Restaurants
And Many Other Premises.	

Specifications:

Power	230Vac 0.2A,
Dimension	182 x160 x 200mm
Weight	2.55Kg
Material	Powder Coated steel



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