

Uvi-Aire

BI-POLAR IONIZATION UBM-20

PLASMA AIR PURIFIER / STERILIZER



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

The ions produces a chemical reaction on the cell membrane surface that inactivate 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, making them drop out of breathing area and also which them easier to be caught in the filters.

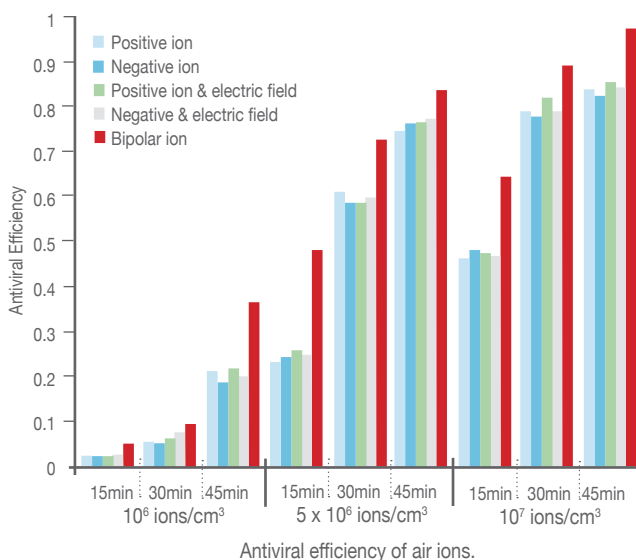
Bi-Polar ionisation has already been proven as effective against various influenza strains as well as norovirus, SARs and other corona virus like H1N1.

The UBM-20 is a small compact unit that can be installed internally in PTAC units, FCUs, Air Discharge Grills, Air Intake Blower of Elevators, etc. Installation is a simple one screw operation.

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 ; 3.4×10^6 / 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

SPECIFICATIONS:

Airflow Capacity	up to 2500 cfm (4000cmh)
Pressure Drop	negligible
Housing Material	Epoxy Plastic
Dimension	60mm x 30mm x 30mm
Weight	100g
Max.Operating temperature	50Deg C
Voltage	230VAC
Power Consumption	1 Watt
Frequency	50/60Hz
Electrical Connection	2 wire
IonisationType	Needlepoint Brushes
Life	3-5 Years*

*subject to daily hours of operation and maintenance of brushes



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