

Uvi-Aire

BI-POLAR IONIZATION UBP-2500

PLASMA AIR PURIFIER / STERILIZER



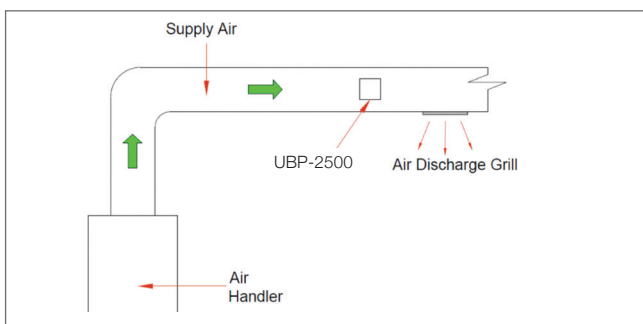
The Bipolar Ionization process releases large amounts of charged ions that attach to, and deactivate harmful substances like bacteria, mould, allergens, and viruses.

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.

TYPICAL INSTALLATION



The UBP-2500 is a small, compact unit that can be installed in air conditioning ductwork with self-tapping screws. Installation is quick and simple.

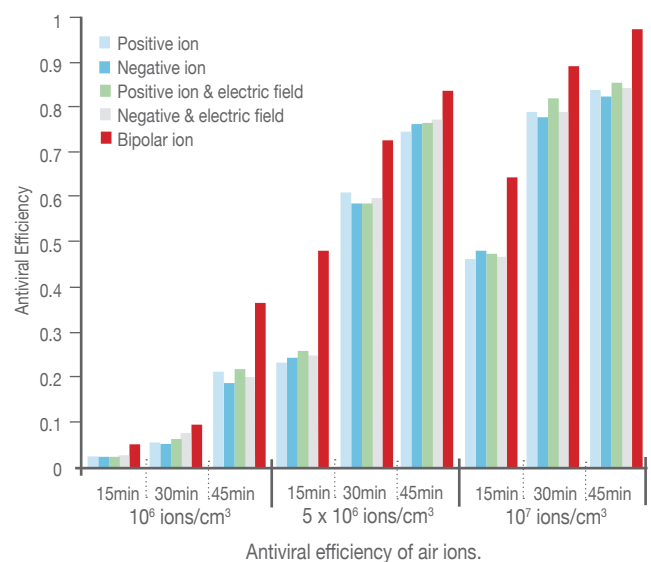
The Unit should be installed as near to the discharge grill as possible.

SPECIFICATIONS:

Airflow Capacity	up to 2500 cfm (4000cmh)
Pressure Drop	negligible
Housing Material	Epoxy Plastic
Dimension	105 x 70 x 50mm
Weight	250g
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*
Installation Type	Ducted or Surface Mount

*subject to daily hours of operation and maintenance of brushes

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



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