

Uvi-Aire

BI-POLAR IONIZATION UBP-10000

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 produce 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.

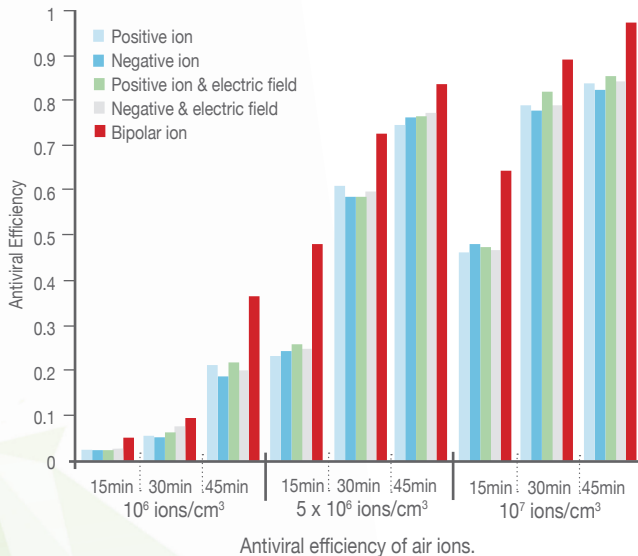


SPECIFICATIONS:

Airflow Capacity	12500 CMH / 7500Cfm
Pressure Drop	25 Pa max
Housing Material	Powder Coated Mild steel
Dimension	250 x 190x 70mm
Weight	2.85Kg
Max.Operating temperature	50Deg C
Voltage	230VAC
Power Consumption	10 Watts
Frequency	50/60Hz
Electrical Connection	3 Pin Plug (UK)
IonisationType	Needlepoint Brushes
Life	3-5 Years*
Installation Type	Duct Mounted
Airflow Sensor Switch	Yes

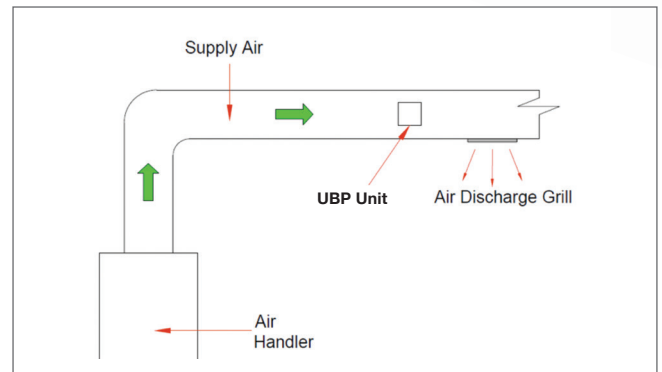
*subject to daily hours of operation and maintenance of brushes

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 ; 3.4×10^6 /cm³, 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

TYPICAL INSTALLATION



The UBP-10000 can be installed in air conditioning duct work using the mounting plate attached. The installer makes a cut on the duct and secures the unit's mounting plate to the duct with self-tapping screws. The Unit should be installed as near to the discharge grill as possible.

Simply plug the socket to the AC power supply. This unit has a built in **Airflow Switch** that will turn the unit on when airflow is detected. It saves the need for additional costs of installing an interlocking power system.



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