



For a Cleaner, Greener and More Sustainable World.



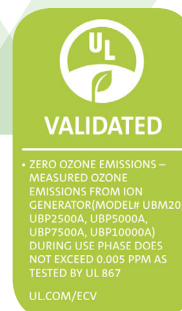
Plasma Air Purifier / Sterilizer



BI-POLAR IONIZATION UBM-20



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 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 being bigger particles, they are easily trapped by the filters. This means less clogging of cooling coils.

Bi-Polar ionisation has already been proven as effective against COVID 19, various influenza strains as well as norovirus, SARs and other corona virus like H1N1.

This product is considered "Ozone Free" and is UL 2998 Validated.

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.

The UBM-20 (Induct Mounting) is the same UBM20 unit but housed in an ABS housing for installation on the outside of any air ducts.

Installation is simple and consists of drilling 2 holes for the 2 ioniser terminals to be inserted into the duct. and 4 screws to attached the housing to the duct.

SPECIFICATIONS:

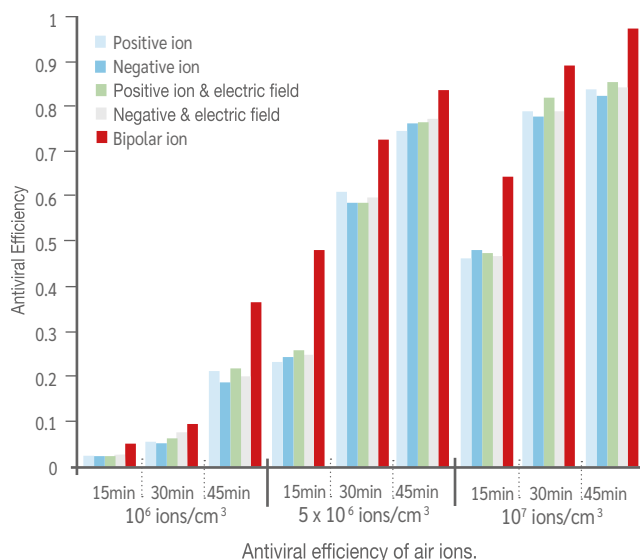
	UBM20	UBM 20 (Induct Mounting)
Airflow Capacity	up to 2500 Cfm / 4000 CMH	
Pressure Drop	<5Pa	
Housing Material	Epoxy & ABS Plastic	
Dimension (mm)	60 x 30 x 30	105 x 75 x 50
Weight	100g	250g
Max Operating temp.	50Deg C	
Voltage	230VAC	
Power Consumption	1 Watt	
Frequency	50/60Hz	
Electrical Connection	2 wire	
Ionisation Type	Needlepoint Brushes	
UL Ozone Test	UL867	
UL Zero Ozone Validation	UL 2998	
Life*	3-5 Years	

*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 / 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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