

AIR CARE - Air Sterilizers/Purifiers

Most advanced solution for O.T. Air sterilization - 7 stage filtration / sterilization process

Ideally Suited For

At medical sites like Operation Theatres, I.C.C.U., I.C.U., N.I.C.U., Post Operative Wards, Trauma Wards, Casualty Rooms etc.

Suitable for small rooms in laboratories, pathology labs, microbiology departments where bacteria or micro-organism free air is desired.

At homes in a closed room specially for allergic patients suffering from respiratory diseases like asthma, pneumonia & other air borne diseases.

Suited in dental clinics O.P.D. rooms, Waiting areas, to guard against cross infection from patients.



Air Care 300



Air Care 500



Dust



Pollen



Bacteria



Virus

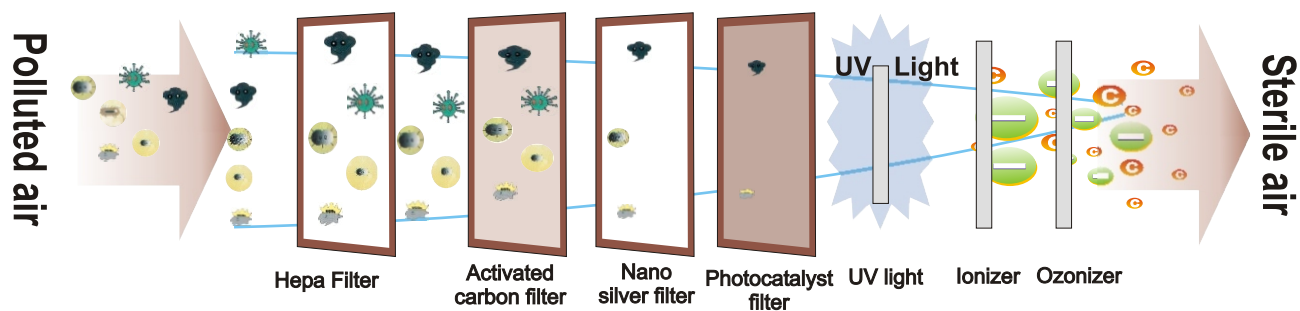


VOCs



Odour

Seven Steps of Perfect Purification System



HEPA Filter: HEPA (High Efficiency Particulate arrester) effectively adsorbs particles less than $0.3\mu\text{m}$ with an efficiency of more than 99.97% It effectively captures particles of pollen, dust & germs.

Activated Carbon Filter : Catalyzes & decomposes the harmful gas like formaldehyde. $\text{H}_2\text{S}, \text{NH}_3$ efficiently. ACF acts like a sponge & traps most of the airborne gases & odors.

Fibre Filter :It traps the dust particles & thereby increasing the life of the HEPA & other filters

Photocatalyst : TiO_2 photo catalyst when exposed in certain wavelength UV light triggers oxidation-deoxidation reaction to decompose formaldehyde, benzene, ammonia, TVOC, sulphur dioxide, carbon monoxide, nitrogen oxide in air & convert it to water & carbon dioxide finally. After nano TiO_2 photocatalyst absorbs UV, it decomposes water in air & forms electron & hole. The electrons & holes combine Hydrogen & oxygen to form OH free radicals which has property to break bacterial cell membrane & easily decompose bacterial in air. This can kill coliform & flu germs in air. It also deodorizes air.

UV Lamps : UV Light with wavelength 254nm can effectively destroy most of the microbes & germs thriving in air effectively due to its germicidal property. The life of UV lamp is upto 8000 hours of working. The sterilization rate is more than 97.6%

Ionizer : It generates negative charged oxygen ions(anions) .Anions with negative charge neutralizes smoke & dust which are +vely charged particles floating in air depositing them naturally. More than 8 Mn ions are generated per second in the unit.

Ozone : This is three atoms of Oxygen together O_3 . It is characterized by its fresh, spring rain like scent & bluish color. Ozone is one of most powerful microbicides known to science. It effectively destroys most resistant pathogens. It is metastable meaning it tends to revert back to its original state oxygen.

Specifications

Parameters	Model -Air Care 500	Model -Air Care 300
Area Covered	up to 500 sq ft	up to 300 sq ft
Product Size	340 X 222 X 610 mm	305 X 330 X 170mm
Air Flow Volume	approx 150 m ³ /h	approx 365 m ³ /h
Power Rating	60W	39 W
Noise Level	Less than 45 dB	Less than 40 dB
Ions	8×10^6 ions/m ³	8×10^6 ions/m ³
Filtration /Sterilization Levels	1) Pre-Filter 2) HEPA 3) TiO_2 Photocatalyst 4) Activated Carbon filter 5) Ionizer 6) UV lights 7) Ozonizer	1) Pre-Filter 2) HEPA 3) TiO_2 Photocatalyst 4) Activated Carbon filter 5) Ionizer 6) UV lights 7) Ozonizer
Controls	Touch screen Panel & remote control	Touch screen Panel & remote control

For Details Contact :

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