



Nivritti AST LLP

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PLASMA DISINFECTION

WHAT IS PLASMA HYDROXYL GENERATOR TECHNOLOGY?

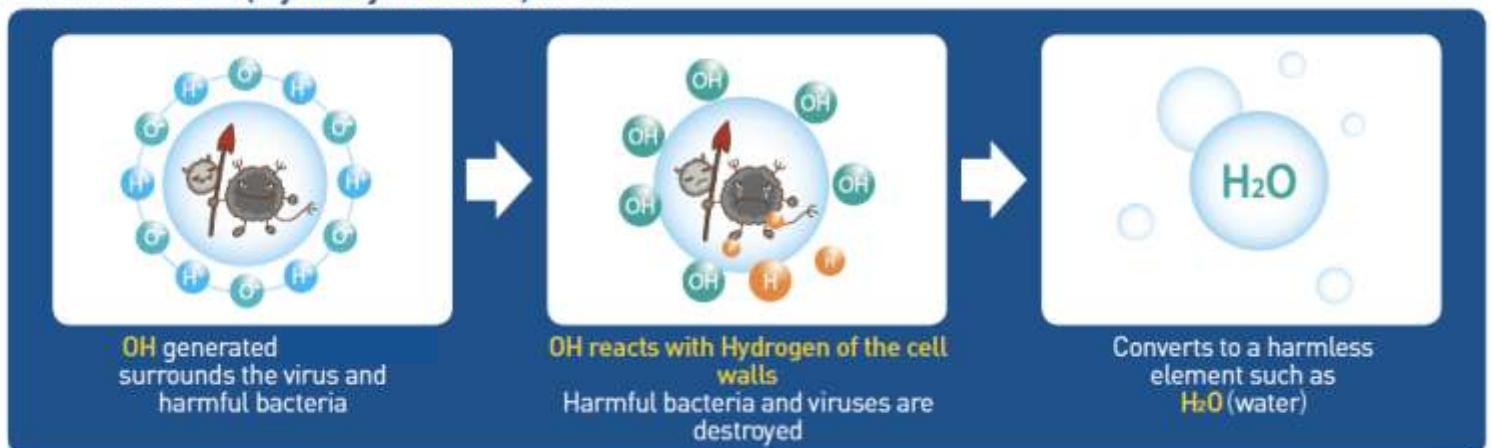
Hydroxyls radicals (not to be confused with ozone) are formed when UV-C radiation from the sun strips the hydrogen (H) atoms from water molecules (moisture - H_2O), forming negative hydroxyl ions (OH^-) and a little hydrogen peroxide* (H_2O_2 gas) which helps clean the air.

Atmospheric hydroxyl radicals are so reactive that they are instantly neutralized when they make contact with any substance and would be impossible to ingest as a complete ion. This fact makes hydroxyl radicals, which are in the outside air at all times during the day, one of the safest processes for deodorizing in an occupied area

In other words, hydroxyls react with airborne pollutants and destroy them. They are highly reactive and very short-lived with an average half-life of fewer than two seconds. They are airborne pollution and pathogen eaters.

Safest processes for Deodorizing in an occupied area

❖ How does OH (Hydroxyl Radical) work



OH radical is **206%** stronger than **chlorine**

157% stronger than **hydrogen peroxide**

Strong sterilization that is **2,000 times** stronger than **ozone**

180 times faster than ozone and **ultra violet rays**

ADVANTAGES

- ✓ More hydroxyl radicals are produced
- ✓ No ozone generation
- ✓ 99% removal of Bacteria and Virus
- ✓ 90% removal rate of VOC
- ✓ Odour elimination
- ✓ No residuals

FEATURES

- Super fast disinfection
- Auto controls
- Easily mobile
- Cold plasma technology with advance catalyst
- Longer life cycle



TECHNICAL SPECIFICATIONS

Component	Parameter
Power	300W
Voltage	220V
Fan	20W
Weight	39 kg
Size	750 * 340 * 780mm
Cable	10 meters
Plug	3 pins (with ground)
Air pipe diameter:	58mm
Length	2.8 meters
Wheel	4
Fan protection cover	1
Technology	Plasma Electric Field
Gas	hydroxyl radical, negative oxygen ion

No dead angle in the room to eliminate bacteria.

Personnel can stay for short periods,

Prolonged contact with gas is not advisable