



greenlime®

automatic ozone generator

*“Harnessing nature’s power
- bringing outdoor
freshness indoors”*



In nature ozone is produced by the action of high energy discharges in lightning on oxygen in the atmosphere. Greenlime recreates this natural process. The ozone produced destroys harmful micro-organisms with which it comes into contact and breaks down malodour-causing compounds therefore neutralizing the unpleasant smells they produce. Because ozone is a gas it penetrates to even the most inaccessible locations. The process leaves no chemical residue, with all "unused" ozone reverting to oxygen within a short time.

What is Greenlime automatic ozone generator ?

Greenlime is an automatic ozone generator is designed to:

- Eliminate unpleasant smells.
- Kill up to 99.5% of air bourne viruses and bacteria.

How does the unit work?

- In nature, ozone is produced by the action of high energy discharges in lightning on oxygen within the atmosphere. Greenlime re-creates this natural process.
- The ozone that Greenlime produces destroys harmful micro-organisms and breaks down odour causing compounds – therefore destroying the unpleasant smells they produce.
- The unit has programmable settings for ozone production to suit your specific location requirements.

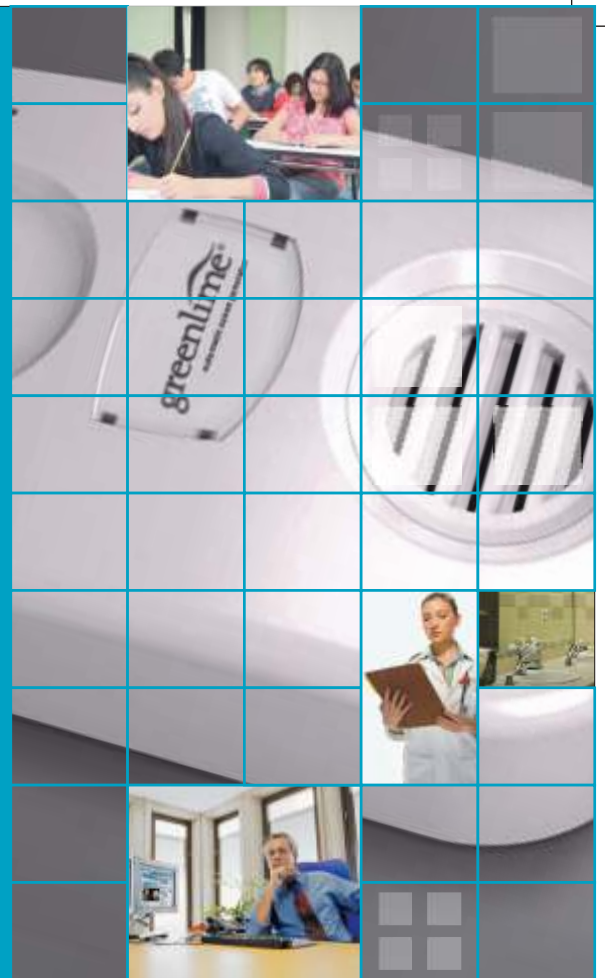
CONTAMINATED
AIR



Dimensions:
210mm (h) x 135mm (w) x 85mm (d)
Adjustable ozone Production to
match room sizes up to 150m³
Fixed or portable application
Standards:
EU LVD – Directive 2006/95/EC. EU
EMC- Directive 2004/108/EC, EN 55014-2:1997
Voltage:
85v-264V , 50/60 Hz
Fuse rating 5A
Power rating:
12 watts
Ozone production:
2mg/hr (Min)
15mg/hr (low)
40mg/hr (med)
80mg/hr (high)

Which locations can benefit ?

- All Commercial Washrooms
- Care homes
- Schools, Colleges and Universities
- Offices
- Bars/Restaurants/Cafés/Nightclubs/Pubs
- Shopping Centres/Department Stores/Supermarkets
- Hospitals
- Places of worship
- Leisure Centres and Gyms
- Hotels
- Airports/Ferry Ports & Large Ferries/Motorway Services/Train Stations
- Stadiums and Sports Arenas
- Cinemas/Theatres/Museums/Theme Parks/Tourist Attractions
- Exhibition and conference centres
- Food Preparation areas.



Features and Benefits

Feature	Benefit in use
Kills up to 99.5% of bacteria	Greatly reduces risk of cross contamination, sanitizing the air we breathe
Programmable settings	Suitable for all locations up to 150m ³ variable from 24/7 to 8 on / 8 off times per day
Low maintenance requirements	Easy to service/maintain
Installation options	Suitable for either portable or fixed installation
Extremely economical	Offers excellent cost in use, consuming only 12 watts of electricity
Visible LED and safety cut out switch.	Confirms operation of unit with easy and safe servicing.
Aesthetically pleasing and attractive design.	Part of a co-ordinated washroom range
Environmentally friendly.	No Voc's and no consumable disposal issues.



Ozone or "activated oxygen" is produced by bringing the air we breathe into contact with a high voltage electrical discharge. An ozone generator mimics nature by creating a natural freshness often associated with electrified air after a thunderstorm.

Destroying air borne viruses and bacteria.



Air borne bacteria and viruses are a common source of respiratory infection and a particular threat to infants, the elderly and those with compromised immune or cardiovascular systems, including people with allergies, asthma, AIDS and heart disease. Some serious infectious diseases are spread by air borne bacteria and viruses – some examples include:

- Whooping cough
- Meningitis
- Chickenpox
- Smallpox
- Pneumonia
- Bronchitis
- Tuberculosis

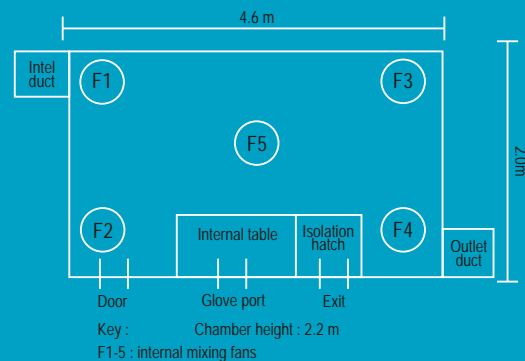
Evidence has shown that ozone can have a sanitizing effect and kill up to 99.5% of air borne viruses and air borne bacteria. Greenlime® has been tested against a bacteria called *Micrococcus luteus*, which is a gram positive bacteria that belongs to the family Micrococcaceae. It is found in soil, dust, water and air, and as part of the normal flora of the mammalian skin. The bacteria also colonises in the human mouth, mucosae, oropharynx and upper respiratory tract.

This is essentially a bacteria that is used as a benchmark for destroying other bacteria because they lack the enzymes to break down toxic forms of oxygen.

The antibacterial activity of ozone is several thousand times greater than that of chlorine and up to 3000 times faster than chlorine as a disinfectant.

Effect of Ozone and Open Air Factor against Aerosolized *Micrococcus luteus*

Using the combined effect of air filtration, activated oxygen and Hydroxyl radical production, Greenlime has been clinically proven to kill 99.5% of airborne bacteria at safe levels for exposure to humans. Greenlime uses these naturally occurring reactions to create a prevailing solution that is also environmentally friendly. Once exposed to the Greenlime ozone generator, the bacteria is effectively eliminated and the malodours disappear which creates a sanitising effect. Due to the use of ozone, the Greenlime unit is completely safe to use as it is not preserved in the environment and does not remain after its application in clean air. Chlorine or chlorine-based products have been widely used as sanitizers for environmental surfaces. There is mounting concern, however, over the health and environmental implications of using chlorine-based sanitizers because of the possible formation of carcinogenic halomethanes and other chemical by products, which can potentially be returned to the environment. However, Greenlime alleviates these worries with the use of ozone – the ozone generated has a higher oxidation potential than chlorine and consequently, can be a more successful as an antimicrobial agent.



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Pudumjee Hygiene™
International Hygiene Solutions

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greenlime®

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