

# Lamers ENVIRONMENTAL BOS

## Advanced Oxidation Process for Compactor/Dumpster/Waste Storage Area/ Lift Station Bacteria & Odor Abatement System



Fully automatic, easy to use and install, versatile and portable

No costly and complicated chemicals

Leaves no residue / operates unattended

BOS uses Photohydroionization™, nature's natural deodorizer, environmentally friendly

Low power consumption, 220 volt

Low maintenance - only one filter to clean, yearly cell replacement

10,000 hours average photohydroionization™ cell life

Advanced Oxidation gases actually destroys odor molecules, it is not a cover-up

Photohydroionization™ destroys bacteria, mold, organic pollutants and odors

### BACTERIA / ODOR ABATEMENT SYSTEM - FOR -

LIFT STATIONS, DUMPSTERS, FOOD PROCESSING,  
RESTAURANTS, HOTELS, NURSING HOMES, RECYCLE  
CENTERS, FAST FOOD, SUPERMARKETS, LAUNDRIES...  
just to name a few.

## THE BOS PHOTOHYDROIONIZATION™ MODULE WILL DESTROY, NOT JUST COVER-UP, THE FOLLOWING AIRBORNE SUBSTANCES:

- DECOMPOSING ORGANICS
- SMOKE
- MOLD & MILDEW
- BACTERIA
- ALGAE
- URINE / FECES
- CHEMICAL FUMES
- FUNGUS
- YEAST
- POLLEN
- HYDROCARBONS
- KETONES
- SPORES
- VOC's

THE BOS SYSTEM OF LOW COST ADVANCED OXIDATION PRODUCTION IS DESIGNED TO PROVIDE COMMERCIAL AIRBORNE BACTERIA AND ODOR DESTRUCTION

Lab Results



Before and after bacteria samples application of BOS unit to commercial dumpster compactor

\* Independent Lab data available

Outstanding Features

- No Costly Chemicals
- All stainless steel
- Automatic Unattended Operation
- Safety Service Cut Off Switch
- Hour meter / On off indicator light
- Destroys Odors- Is Not a Cover Up
- Economical to Use
- Low Maintenance - Monthly filter cleaning, annual PHI Cell replacement
- Reduces Fly Infestation
- Reduces airborne bacteria
- Reduces liability
- Eliminates odors

Odor reduction (Hydrogen Sulfide)



Bos III

Specifications

MODEL	BOS-HOX	BOS I	BOS II	BOS III
VOLTAGE	230 Volt	230 Volt	230 Volt	12 Volt
AMPERE	1,5	1,5	1,5	1
WEIGHT	11 kg	9 kg	4 kg	2 kg
MATERIAL	Stainl.Steel	Stainl.Steel	aluminium	Stainl.Steel
DIMENSIONS l x w x h (cm)	64x26x46	64x26x46	63x16x16	40x10x10
FINISH	polished	polished	2 part epoxy	polished
CONTROLS	on/off	on/off	Control	no
	- -	High/Low	- -	
FAN VOLUME	170 m <sup>3</sup> /h	110 m <sup>3</sup> /h	76 m <sup>3</sup> /h	40 m <sup>3</sup> /h
ADVANCED OXIDATION	6 x 9" cell	2 x 9"cell	1 x 9"cell	1 x 5"cell
OXIDATION GASES	Hydro peroxides, ozone, Super Oxide Ions, Hydroxyl Radicals			

The Benefits

The Advanced Oxidation gas created by the Photohydroionization Cell are safe environmentally friendly oxidizers that revert back to oxygen and hydrogen. The BOS utilizes ozone to create hydroperoxides, oxide ions and hydroxyl radicals. The ozone produced is a safe low concentration, produced by a targeted high intensity UV light technology. This method is far safer than the traditional ozone generators. Targeted UV ozone generators do not produce nitric oxide gas or nitric acid and they have a very high efficiency rating. The additional oxidizers (hydroperoxides, oxide ions and hydroxyl radicals) provides a broader range of applications and redundant oxidation gases.

subject to alterations



Postbus 48  
 Ambachtsweg 2  
 Tel. 0314 - 62 33 41  
 Fax 0314 - 62 33 11

7020 AA Zelhem Nederland  
 7021 BT Zelhem  
 info@lamersequipment.nl  
 www.lamersequipment.nl