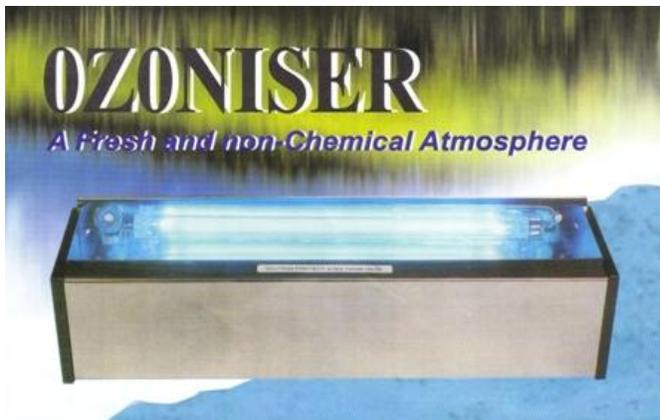


Ozoniser by Micro Oxidation

Remove or Control:

Ozone is very possibly the most powerful and effective eliminator of smoke and odors. Ozone Eliminates odor and tobacco smoke, its impurities or Phenol gasses, and odors from cooking, pets, mold, mildew and often the sources of household odors. Disinfecting and purifying with ozone provides a much healthier home, atmosphere and environment.



How It Works:

Our advanced oxidization process begins when UV light bands react on hydrated, quad-metallic, compound targets. These reactions produce friendly oxidizers, including hydro-peroxides, super oxide ions, ozonide ions, and hydroxides. These oxidizers then purify the air by oxidizing, or neutralizing, the pollutants, and then become oxygen and hydrogen molecules.

Why You Need Unique Ozoniser:

The Unique Oxidation System has been proven to reduce micro-organisms by over 95%.

Gases, VOCs, and odors are reduced significantly, and ozonide ions, hydro-peroxides, super oxide ions, and hydroxides replace the pollutants in your home with a supply of fresh, clean, odor-free air, without adding perfumes or poison to your indoor environment.

What can the Ozoniser do?

1. Completely eliminates odors from Public Toilette smell, Butchery, Pet Urine, Heavy Cigarette and Cigar Smoke, Mold and Fungus, Cooking odor, Hotel room Sterilizer, Refuse Chamber, Water Treatment Plant, Food Sterilizer, and General applications,
2. Completely eliminates odors from Fire and Smoke Damage, and Water and Flood Damage.



Application to use for Ozoniser

Odor control for sewage plants:

Effective odor control and air purification requires that the odor or impurities be contained in either a ventilation stream or confined space. The odors and impurities can then be selectively treated. In most cases, those odors and contaminants generated by bacterial or organic action in either aerobic or anaerobic environments can be neutralized by oxidation using ozone. The resulting reaction compounds are innocuous and odorless. Properly controlled injection of ozone is an effective, inexpensive method of oxidizing hydrogen sulfide and methane. Each facility, with its unique problems with contaminants, environmental conditions, local requirements, and desired solution, must be addressed on an individual basis. All of these factors must be considered when designing a deodorizing/purification system.

Cigarette & Cigar Smoke Removal / Elimination:

OZONE eliminates the irritation caused by phenol gasses, by oxidizing them. Phenol gasses are the invisible part of tobacco smoke that causes such discomfort to one's eyes and create the offensive odors. Ozone rids any environment of the effects of smoke completely, rather than merely filtering out some of the visible particles like an electronic air cleaner or air filter system. For restaurant, bar, or pool hall owners, these units have proven to be invaluable and help keep clientele coming back!

Building cleaning services:

Ozone is effective for preventing the growth of bacteria and mildew in a bathroom, as well as neutralizing any unpleasant bathroom odors. Ozone generators can be fitted into public rest rooms to maintain a low level of bacteria and deodorize the area, creating the most sanitary conditions possible for clients and guests. Ozone generators can be used by cleaning personnel in an office area to deodorize and neutralize the smell of smoke, etc. The ozone generator can be left on in an empty room to sanitize and deodorize the room, getting rid of musty, stale smells and permeating the curtains and carpet killing bacteria and mildew. A portable unit can be used to deodorize rooms, offices or bathrooms or small permanent units can be installed in each room or bathroom.

Boat / Ship / Cruise line Odor:

Boats often develop strong fish odors, bacterial, mold, and other odors. Ozone is excellent for removing and controlling these odors. Cruise ship companies can use ozone generators for room decontamination and odor removal just as hotels and motels.

COMMERCIAL-CATERING GREASE AND ODOUR ELIMINATION

Fat and Odor contaminated air from cooking and frying processes passes the Honeycomb Grease filter of the hood or kitchen ceiling, and is then cleaned by passing the ESP and finally UV ozoniser cleaning system, the following UV ozoniser advantages:

- Reduced cleaning and maintenance costs because of grease-free duct works
- Reduced fire risk
- Elimination of odor
- Grease build-up in existing exhaust systems reduced, and therefore no necessity for replacement of polluted ducts
- No usage of chemicals – no corrosion
- No microorganisms within the ducts, bringing improved hygienic conditions
- Power and duration of fans significantly improved
- Improved Kitchen Exhaust Emission control



"Common Sense" explanation of how ozone works.

Organic contamination (odor) may include bacteria, mold, fungus, virus, etc. Let's call this the problem. The unique **Ozoniser** produces a gas called ozone. Let's call this the potential solution. There must be more ozone available than there is contamination. Here is an example of what I mean. Our Unique **Ozoniser** 2,500 milligrams of ozone gas per hour which will eliminate 2,500 milligrams of organic contamination every hour. The unknown factor is the "how much organic contamination is present in a given area" .

Your nose tells you there is a problem however it does not measure the exact extent of the problem. The only way to deal with this is to allow the ozone generator to run long enough to completely overcome the problem. One thing we know for sure. A 2,500 mg/hr ozone generator will do the job much faster than a generator producing just 200 mg/hr.

Not for Personal Use.

The UV Ozone - 2,500 milligram is not designed to be used in any occupied spaces. High levels of ozone like those produced by the UV Ozone - 2,500 milligram can be very harmful to a person's health. Just like chlorine, ozone has the ability to oxidize impurities including VOC's (volatile organic chemicals) However unlike chlorine, ozone leaves no chemical residual. Given enough time and exposure, ozone will eliminate any type of organic odor or organic contamination.

Things it will NOT damage:

1. Painted or Wood surfaces. Furniture, Draperies, Carpeting, or Fabric .
 2. Internal parts of appliances, electronics or electrical wiring.
 3. HVAC systems.
 4. Clothing, footwear.
 5. It will not tarnish silverware or fine jewelry.
- All of the above are non-organic.

Things it WILL damage:

1. Things made of rubber ie, rubber bands.
2. House plants when exposed to very high levels of ozone. (concentrated Ozone)

Ozoniser Additional Features:

1. The Ozoniser I and II for domestic and commercial applicable.
2. The Ozoniser III for Strong Odor Problem.
3. The Ozoniser are assembled and design with corrosion resistant stainless steel.
4. The Ozoniser use a germicidal UV-C lamp that produces the most effective odor killing ozone that ultraviolet technology has to offer.
5. UV lamps continue to produce ozone for up to 10 to 12 months of continuous use. After that the light is on, but ozone levels are below optimal. UV Tube replacement is easily accomplished by anyone who can change a light. Simply remove the lamp from its snap clips, separate the tube from its' power plug. Reverse the order for the installation of a new tube.
6. One (1) year against manufacturing defect subject to proper installation.

Technical specifications

Ozoniser I & Mini Ozonair.

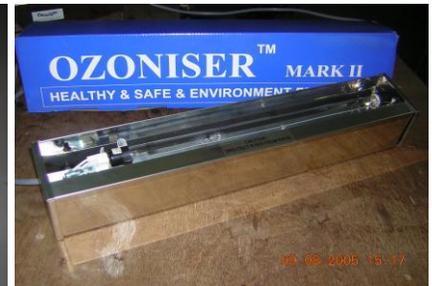
Ozoniser I & Mini Ozonair is designed for domestic and also can applicable for commercial applications. It contains a single UV Ozone germicidal tube which produces over 200 mg/hr of ozone. It is most efficient using up to 300 square feet, also applicable for supply air section. This unit can use up to 300 cfm* for single UV Ozone tube.



Ozoniser / I



Mini Ozonair



Ozoniser II

Ozoniser II



Odor-X sterilizer

Ozoniser II is designed for commercial and industrial applications. The stainless steel housing measures 450 mm length and 80 x 90 mm size. It contains a single UV Ozone germicidal tube which produces over 450 mg/hr of ozone. It is most efficient using up to 600 square feet, also applicable for supply air section. This unit can use up to 600 cfm* for single UV Ozone tube.

Odor-X Sterilizer uses two (2) piece of nature's own purifying agents, namely Sun and Ozone, to provide risk-free protection from objectionable odors, airborne micro-organisms, bad smell, nicotine smell, and many more.....



Ozoniser III

Ozoniser III is designed for Heavy duty and industrial applications. The stainless steel housing measures 550 mm length and 80 x 90 mm size. It contains a single UV Ozone germicidal tube which produces over **2500 mg/hr of ozone**. It is most efficient using not more than 550 FPM face velocity. This unit can use up to a 2000 cfm* for single UV Ozone tube. *(based on 500 x 600 duct size)

Technical specifications

Model	Odor-X Sterilizer	Mini Ozonair	Ozoniser I	Ozoniser II	Ozoniser III
Emitted radiation wavelength			184 Nm		
Dimension (mm) L x W x H	410 x 155 x 155	490 x 60 Dia.	330 x 80 x 105	450 x 80 x 105	670 x 80 x 105 550(UV tube)
Coverage area (sq.ft)	500	200	200	300	500
Mode of Mounting	Portable	Horizontal wall mounted			Induct / wall mounted
Ozone Output (g/hr)	0.8	0.2	0.4	0.6	2.5
Electrical: 230V/1Ph/50Hz	20 watts	8 watts	8 watts	20 watts	40 watts
Weight (kg)	3.2	1.2	1.7	2.2	1.8
Housing / Bracket	Stainless Steel	Aluminium		Stainless Steel	
Replacement UV tube	G8T-15H-295	G8T-15H-200	G8T-15H-295	G204PT15H-370	G40H-495

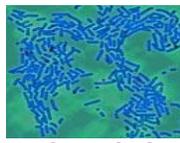
* **Subject to contamination level.**

* **Measured in 41.3 cubic meter room.**

Ozone Applications:



Fish Smell



Bacteria and Viruses



Wastewater Treatment



Water Treatment



Tobacco Smoke & smell



Food Processing



Motor Vehicles



Factory



Vegetable Sterilizer



Butchery



Cooking odor



Refuse Chamber



Refuse Chamber Truck

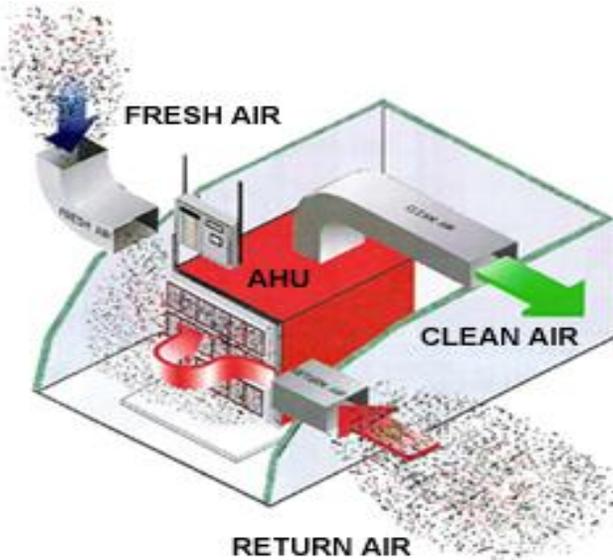


Hotel room



Mold & Fungus

UV Ozone install inside the AHU / FCU Induct Mounted



Honeywell F58G Duct Mount Electronic Air Cleaner



UV Ozoniser attach with Honeywell Electronic Air Cleaner



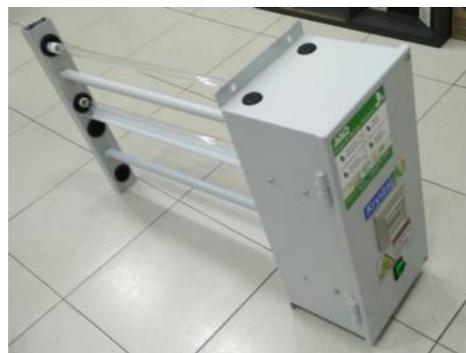
(304 / 316 L) Heavy-Duty Wall Mounted Type



Odor Neutralizer for Smog-Hog KEEC



670 mm (lengths)



KA-DM Series Duct mounted



UV Ozone-Chamber

Ultraviolet (UV) ozone generation

Ultraviolet lamps have been used for decades to generate ozone. This lamp emits UV light at 185 nanometers (nm). Light is measured on a scale called an electromagnetic spectrum and its increments are referred to as nanometers. Figure 1 represents an electromagnetic scale; note the location of higher-frequency ultraviolet light relative to visible light (the range of light perceptible by the human eye).

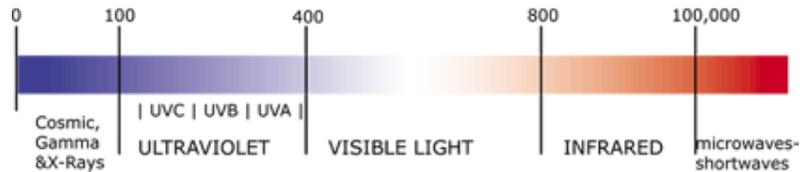


Figure 1, Wavelengths in nm

Air (usually ambient) is passed over an ultraviolet lamp, which splits oxygen (O_2) molecules in the gas. The resulting oxygen atoms (O^{\cdot}), seeking stability, attach to other oxygen molecules (O_2), forming ozone (O_3). The ozone is injected into the water, or air stream, where it inactivates contaminants by actually rupturing the organisms' cell wall