

Scalemaster Adlam Pvt. Ltd.

SCALEMASTER ECO FRIENDLY WATER TREATMENT

We appreciate your interest in our "Ozone generators" for water and air purification. We enclose the following documents for your perusal,

- ❖ The principle of ozone purification.
- ❖ Ozone generation.
- ❖ Ozone purification and applications in water and air.
- ❖ Features and Specification.
- ❖ Price list.

If you have any further questions please contact us.

Regards,

A. Prabhaker Rao
Managing Director

Scalemaster Adlam Pvt. Ltd.

THE PRINCIPLE OF OZONE PURIFICATION:

Ozone is a gift of nature. It is a miracle gift of god.

Ozone is produced by rays from the sun or by lightning. When Ozone is applied as gas to the water for treatment it effectively destroys and inactivates virus more rapidly than any other disinfectant such as chlorine or bromide. After thunder and lightning, the electrical discharge disassociates the oxygen molecules in the air thus purifying the atmosphere.

The fresh smell present after thunderstorm is proof that mother nature is purifying the air. The fresh air you breath and experience is just ozone treated by nature. Ozone is very unstable molecule with three oxygen atoms. The third oxygen atom attempts to restabilise by combining with another atom. When it comes in contact with contaminants such as bacteria, virus or organic waste material, ozone acts as an oxidizer. Ozone is the strongest oxidizer and is the safest purification and disinfecting agent.

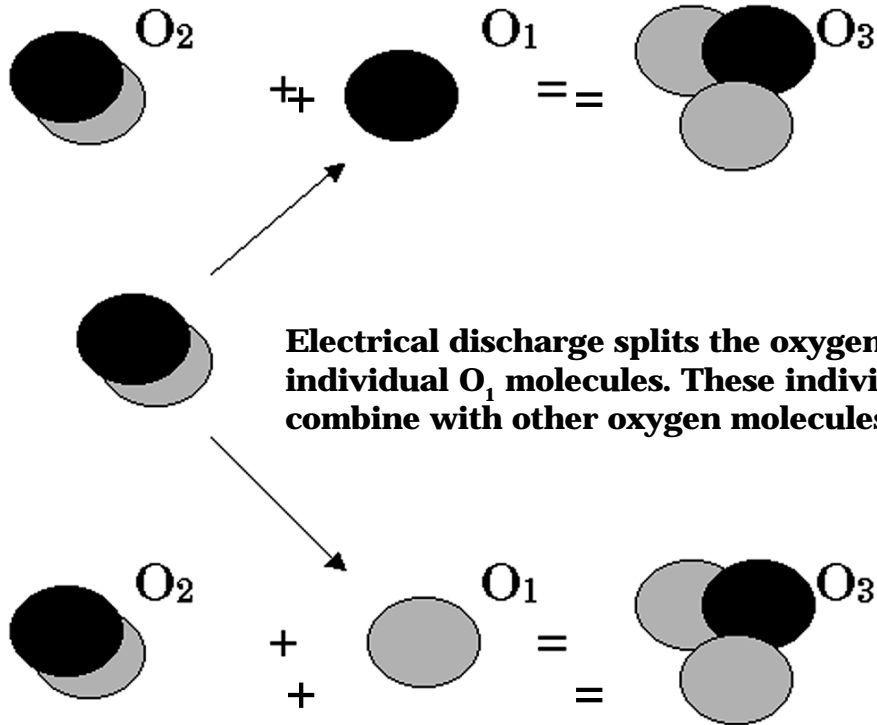
Ozone is generated from the air surrounding us. Ozone is the safest purification and disinfecting agent and is generated without the use of chemicals and it does not add any chemicals to the water. Ozone generation and its uses in water and air purification, does not harm the environment. It is 100% environmentally friendly. After the use, Ozone gets back into the air where it gets converted back to oxygen again. The by-product of ozone is oxygen and that is a boon.

Ozone when introduced in water, due to its oxidizing property, eliminates bacteria, virus, fungi and microorganisms immediately. Ozone also oxidizes metals. Thus the iron smell, which lingers in most of the waters drawn from bore wells disappear. Ozone does not leave any toxic residue in the water.

Ozone layer is not to be confused with the Ozone gas we use for water and air treatment. Ozone molecule exists in upper atmosphere between 10kms to 50 kms above the earth. This friendly ozone layer absorbs most of the harmful ultraviolet radiation from the sun, thus providing a protective layer over the earth. Depletion of the ozone layer allows harmful ultraviolet rays to reach the earth causing skin cancer, eye cataracts, reduced plant yields and damage to ocean eco system

Ozone determination is a complex process. Ozone being a very highly active gas, it breaks down rapidly even before a proper measurement can be complete.

OZONE GENERATION



Scalemaster Adlam Pvt. Ltd.

OZONE PURIFICATION AND APPLICATIONS:

Water Purification

Ozone, when applied as a gas for water treatment, effectively and rapidly destroys microorganism and helps in the removal of colour and odour in water.

Ozone is 100% environmentally friendly. Ozone is generated without the use of any chemicals and the gas does not add any chemicals to the water.

Ozone – the strongest oxidizing agent – when in water oxidizes everything in contact and then converts to oxygen, which eventually escapes into the atmosphere. Other oxidizing agents like chlorine and bromine are harmful as the by-products created during the process of oxidizing produces cancer causing agents like Tri halo methane's, which cause cancer of the colon and bladder. On the other hand ozone does not leave any toxic residue or by products in the water.

Hence ozone is the safest, most effective environment – friendly purifying and disinfecting agent.

The result of ozone water treatment is clean pure fresh water.

Water treatment applications:

- ❖ Drinking water installations
- ❖ Swimming Pools
- ❖ Cooling Tower treatment
- ❖ Circulating systems
- ❖ Effluent treatment
- ❖ Odour and colour removal

Scalemaster Adlam Pvt. Ltd.

Air purification:

Ozone is sometimes called activated oxygen. It is the best oxidizer and sanitizer.

Ozone is very lethal to almost all bacteria, viruses, fungi and any airborne contaminants.

Bacteria that cause mold mildew smells, pet odours, many residual cooking odours etc are oxidized and destroyed when they react with ozone. Like chemical pollutants, the membranes or shells of bacteria contain unsaturated molecules, which take on ozone and are destroyed in much the same way as the chemicals.

Indoor air pollution is recognized as one of the major health concerns facing the nation today. This condition has come in because of lack of fresh air and pollution in our cities. Modern science can reduce the pollution in the cities to ensure fresh, clean air.

The goal of air purification is to reduce the contaminants in air so as to make it clean and fresh. In modern buildings there is a stagnation of air due to bad circulation. This causes the air to get stale and hence the building is termed as undergoing a sick building syndrome.

Air Purification application:

Odour removal in hotels, motels, meat storage, musty basements, smoked areas, hospitals, and any other areas that are exposed to contaminated air.

Scalemaster Adlam Pvt. Ltd.

FEATURES AND SPECIFICATIONS:

- ❖ Fine injection of ozone into water due to venture principle.
- ❖ Ozone flow meter to show ozone flow.
- ❖ Maximum power consumption is 80 watts.
- ❖ Has the least moving parts and hence there is no break down.
- ❖ The unit is made in India with the least imports hence the units are cost effective in the market.
- ❖ The venturi is made of Kynar, which is Ozone resistant. Any other material of construction gives way to Ozone after some time. ❖ **PRICE LIST OF "OZONE GENERATORS"**

Effective 1st April, 1998

Water Purification models:

Flow Rate	Model No.	Price	Scope of supply
250 LPH	CD – 4000	Rs. 30,000	Ozone generator, Ozone arrester, Ozone injector and 2nos. air filters
500 LPH	CD – 4500	Rs. 38,750	Ozone generator, Ozone arrester, Ozone injector, 0.25 hp pump and 2 nos. air filters.
1000 LPH	CD – 4750	Rs. 52,000	Ozone generator, Ozone arrester, Ozone injector assembly, Ozone transfer reactor, 2nos. air dryers.
2000 LPH	CD - 4790	Rs. 76,000	Ozone generator, Ozone arrester, Ozone injector assembly, Ozone transfer reactor, 2nos. air dryers and 0.75 HP SS pump.

Scalemaster Adlam Pvt. Ltd.

Air Purification Models:

Model	Price
Standard	Rs. 26,500
Industrial	Rs. 32,000

- Levies:** Pkg. & Frwdg: 2%, Local ST 10%, CST 4% against form "C"
- Installation supervision:** Rs 3,000/- lumpsum.
- Delivery:** Within 2 weeks from the receipt of confirmed order.
- Payment terms:** 50% advance with order and the balance before delivery.
- Warranty:** 12 months from the date of commissioning.
- Installation:** Our service assistant will be deputed for installation.
- Note:** Supply is in full set only. Part indents are not accepted.