

TEAM WATERHOUSE PRESENTS

# Ozone Application in Aquaculture

OZONEPEDIA



# OZONE BASICS

## WHY OZONE IS AQUACULTURE'S BEST FRIEND

Strongest disinfectant-cum-oxidant gifted by Mother Nature

3,157 times stronger disinfectant than Chlorine

Complete destruction of Bacteria/Virus/Mould/ Fungi/ Algae

5.5 times stronger oxidant than pure oxygen

Increases Dissolved Oxygen content

Leaves No Toxic Residue, Kills all foul odour, kills fish excreta

Recommended by Food & Drug Administration (FDA) of USA





*Oxygen*

**O<sub>2</sub>**

*Ozone*

**O<sub>3</sub>**

Ozone (O<sub>3</sub>) being an allotrope of Oxygen (O<sub>2</sub>), its extra oxygen atom is unstable, and hence it oxidizes the hydro-carbons / R-H radicals by breaking their chemical bonds in a natural process, hence nullifying their properties & destroying the bacterial cells & odour creating compounds.


the extra Oxygen atom (O) goes out of Ozone (O<sub>3</sub>) molecule, to react with harmful compounds

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**AFTER DESTROYING ALL  
HARMFUL COMPOUNDS,  
OZONE GETS CONVERTED  
BACK TO OXYGEN.  
THIS INCREASES THE  
DISSOLVED OXYGEN IN  
WATER.**

Ozone (O<sub>3</sub>) minus O = Oxygen (O<sub>2</sub>) molecule





FROM 1893 (NOT 1983),  
MADRID, SPAIN HAS  
BEEN USING OZONE  
IN THEIR MUNICIPAL  
WATER.





## BENEFITS OF OZONE IN AQUACULTURE

In Aquaculture, the main objective is to increase the production / growth-rates of fishes.

This is not possible without taking care of their health & hygiene.

The water which the fishes shall be continuously drinking, should be completely free of infectious compounds like Bacteria, Virus, Fungi, Mould, Algae, excreta from fishes and all other hydrocarbons. Ozone being the strongest disinfectant, kills all of these negativities.

Since Ozone gets converted to Oxygen after disinfection, the Dissolved Oxygen (DO) in water gets increased, making the fishes consume healthier water for fast growth, thereby increasing the production.

Ozone reduces the BOD / COD, Iron content of water.





## BENEFITS OF OZONE IN AQUACULTURE

In Aquaculture, there remains a worry regarding death-loss of the fishes. This is completely negated when the water is Ozonized properly.

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Ozone makes the entire process chemical-free, with no toxic residue.

Since Ozone is used in circulation loop, there is reduced water usage. The same water is treated & sent back continuously.

Ozone oxidizes long chain molecules, which are unaffected by biofiltration.

Ozone processing is highly Economic, since it is a one-time investment, with the only running cost being a very moderate electric power consumption.

No diseases + More productivity = Your Success (And Ours, too!)

OUR GLOBAL PRODUCTS  
USED IN AQUACULTURE



ZEON 100  
Small-Scale



DETOX-SS-205  
Medium-Scale



WITHERPRO7  
Large-Scale



# CONTACT INFO

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