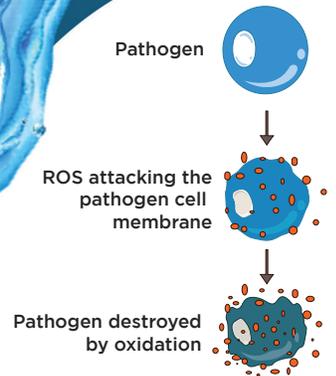


WATER TREATMENT CONCENTRATE

# LIQUID OZONE PLUS



# NEXT GENERATION OXIDATION TECHNOLOGY



## LIQUID OZONE PLUS

Liquid Ozone Plus advances disinfection technology by translating what gaseous ozone does into simple to use liquid formulations. The result is a disinfection ability for the management of viruses, bacteria, molds, and biofilm that is more than twelve times that of conventional chlorine treatments; it far exceeds peroxides, chlorine dioxides and other traditional treatment products and it provides a residual protection which gaseous ozone cannot.

## OXIDATION BY ROS

An oxidizing agent is something that takes electrons from another substance, and it is this taking of electrons that provides disinfection. Liquid Ozone Plus has advanced the chemistry of disinfection and oxidation through the effective use of "Reactive Oxygen Species" (ROS). When added to water, electron stealing ROS are created, providing disinfection. In the treatment of organics, the bacteria and viruses are overwhelmed by ROS, causing oxidation (loss of electrons) on many levels ultimately leading to cell death. This ROS function is very different from products like chlorine in that they do not poison; they actually destroy the target by damaging the cell membrane. The target cannot become immune to this free radical action.

Oxidation also changes inorganic materials. Iron, manganese, and sulfur dissolved in water are oxidized to form insoluble metal oxides or elemental sulfur; these insoluble particles can then be easily removed by standard filtration.

## CONTROLLED BY ORP

ORP (oxidation-reduction potential) measured in millivolts is a measure of the ability to take electrons and is directly proportional to the oxidative disinfection strength. A higher positive ORP reading means a stronger ability to disinfect. A sufficiently high ORP will efficiently eliminate E.coli and coliform.

Using Liquid Ozone Plus instead of conventional disinfectants enables the use of ORP as an objective measure to ensure desired treatment levels, preventing costly over-treatment and avoiding ineffective under-treatment.

ORP LEVEL(mv)	CFU/100ML OF WATER
+200	300
+300	36
+400	3
+600	0*
+800	0**

\*WATER DISINFECTION

\*\*WATER STERILIZATION

## AG FLUID PRODUCTS

☎ 1-866-358-4324 ✉ sales@agfluid.com 🌐 www.agfluid.com

📍 9409 45 Avenue NW, Edmonton, Alberta T6E 6B9, Canada

# LIQUID OZONE PLUS ADVANTAGES

All the ROS disinfecting properties of ozone in liquid form

- ✔ Kills pathogens and microbes
- ✔ More than 12 times the reactivity of chlorine
- ✔ Allows the filtration of previously dissolved metals
- ✔ No toxic byproducts
- ✔ Provides residual downstream disinfection
- ✔ Requires no capital investment
- ✔ Dosing by ORP avoids costly over-treatment and ineffective under-treatment

WATER TREATMENT CONCENTRATE

**LIQUID OZONE PLUS**



## PERFORMANCE

+ Comparison of Oxidants | 
 ✔ Excellent | 
 ✔ Good | 
 ✘ Fair | 
 ! Poor

	Liquid Ozone Plus	Ozone Injection	Chlorine Compounds	Hydrogen Peroxide	Potassium Permang
Hydrogen Sulphide	✔	✔	✔	✔	✔
Ferrous Ions	✔	✔	✔	✔	✔
Manganous Ions	✔	✘	✘	✘	✔
Colour	✔	✔	✔	✔	✔
Reduce Precursors to Cl Organics	✔	!	!	!	!
Common Odors	✔	✔	✔	✔	✔
Earthy Musty Odors	✔	✔	!	!	✘
Enhance Coagulation	✔	✔	✔	✘	✘
Residual Maintenance	✔	!	✔	!	!
Overall Rating	✔	✔	✘	✔	✘