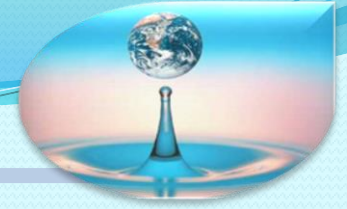




**Hydro-Techniques** M.P.B. inc.

au service de l'industrie et de l'environnement

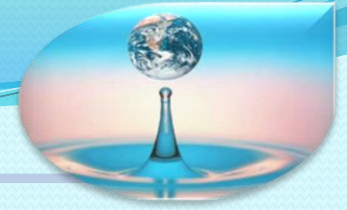
***30A avenue du Pacifique  
Laval Qc.H7N 3X5  
Téléphone 450 490 3821  
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***OZONE DISINFECTION SYSTEMS  
FOR POWER PLANTS &  
INDUSTRIAL LAUNDROMATS***



***PATENTED TECHNOLOGY***



***Ozone is a 100% natural purifier. This compound is generated by lightning and also when ultraviolet radiation from the sun passes through the upper layer of Earth's atmosphere. This is the famous ozone layer that protects us against dangerous UV radiation of the sun.***

***This natural phenomenon can be recreated by the radiation of ultraviolet (UV) lamp. This energy converts the atmospheric oxygen (O<sub>2</sub>) into ozone molecules (O<sub>3</sub>). This third atom makes ozone a powerful oxidant.***

***The "ozone" effect occurs when this atom of additional oxygen is released into the water and causes the oxidation and destruction of bacteria, viruses and other organic matter in water. Ozone also degrade somewhat different hazardous chemicals and cause clotting of insoluble particles.***

***The large capacity of oxidation of the ozone eliminates the need for injection whitening agent and/or chlorine in the circulating water. The result is an ecological choice, safe for the environment.***

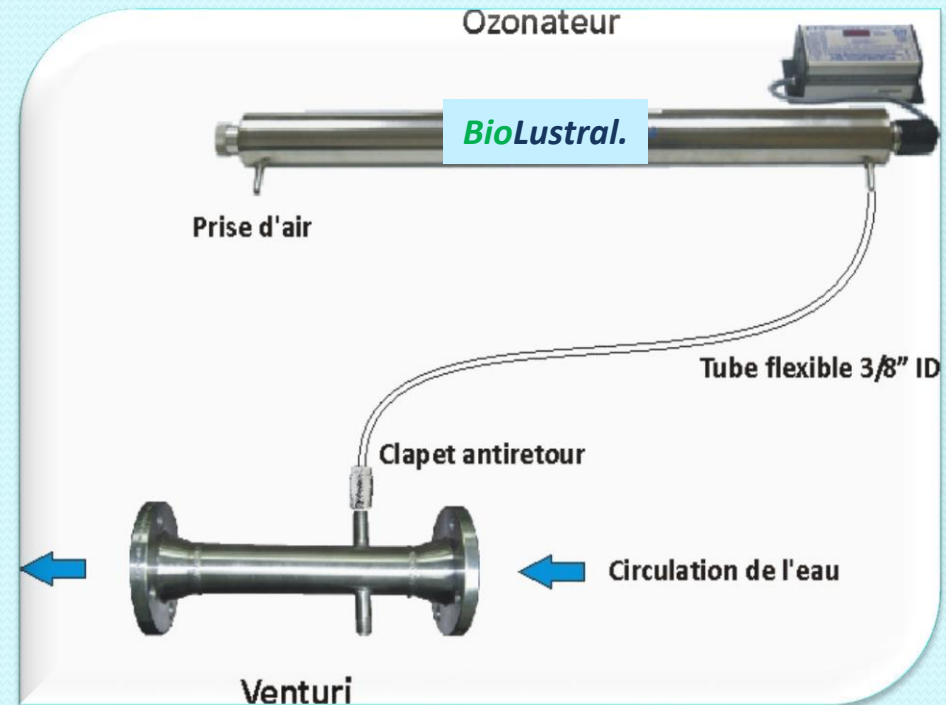
***This treatment also significantly lower water temperatures used, resulting in a rapid amortization and a significant decrease in risk of burns for operators.***

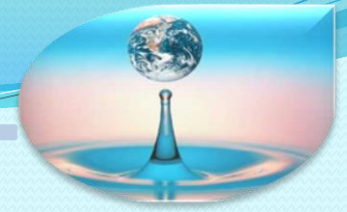


## HOW DOES IT WORK?

*Passing through the venturi, the water creates a significant depression in the ozonator. In response, the ambient air is drawn into the reaction chamber to be exposed to radiation from a UV lamp. The latter transforms  $O_2$  molecules in  $O_3$ .*

*Using the suction from the venturi, the created ozone is injected into the water in the form of thousands of tiny bubbles. The particular design of the venturi generates a vigorous mixing for rapid renewal of the gas-liquid blend. Disinfection is instantaneous. At the end of the cycle, the ozone is naturally converted back into oxygen. The check valve prevents water back to the ozone generator.*

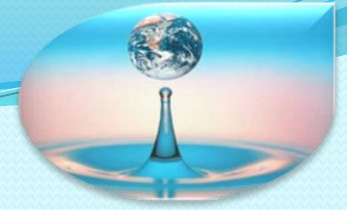




## **SYSTEM'S COMPONENTS :**

- ✓ ***Controller with power cord and UV lamp***
- ✓ ***Reaction chamber (the first two elements form the ozone generator)***
- ✓ ***Hose***
- ✓ ***Check valve***
- ✓ ***Venturi***

***Note: To increase the system capacity, it is possible to use two ozone generators mounted in parallel on a venturi provided for this purpose.***



## **TECHNOLOGICAL ADVANTAGES:**

- ✓ *The water temperature can be lowered considerably*
- ✓ *Energy costs are proportionately reduced*
- ✓ *Amortization of investment in a very short period of time*
- ✓ *Provides bacterial and viral disinfection*
- ✓ *Allows the use of less expensive detergents since the equipment is no longer operated at high water temperature*
- ✓ *Less risk of burns for the operators*

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