



Hydro-Techniques M.P.B. inc.

Serving Industry and the Environment

IONISATEUR H.T.

INDUSTRIAL WATER TREATMENT SYSTEM

The **IONISATEUR H.T.** water treatment system is the most efficient and safest technology on the market today.

IONISATEUR H.T. is an electronic ionic generator that is capable to stop the growth of bacteria from a water treatment system and this is based on its ionic exchange technology of copper metal developed by NASA, for purifying water on board the space shuttle and where the electrolytic water purifying system generates ions which are released in water at concentrations of 50 to 100 mg per liter of water to be treated.

Advantages of ionization process compared to the chemicals generally used in water treatment systems

The **IONISATEUR H.T.** system improves the environment because it replaces all the chemical products and materials normally used in a water treatment system and this, with great success.

Corrosion of pipes and filters is caused by the presence of chlorine in the water system and with the **IONISATEUR H.T.** ionizer that maintains the quality of the water, this culprit is eliminated without adding any corrosive chemical materials.

Comparison table between ionization process and chlorine

Frequently Asked Questions (FAQ)	Chlorine	Ionization
Explosive and dangerous to handle?	Yes	No
Dangerous to store?	Yes	No
Evaporates?	Yes	No
Toxic and poisonous for the environment?	Yes	No
Constant problem with manipulation?	Yes	No
Risk of cancer?	Yes	No
Detrimental for the environment?	Yes	No
Additional operation annual costs?	Yes	No
Kills algae? **	Yes	Yes
Kills bacteria? **	Yes	Yes
Kills viruses? **	Yes	Yes

General information on water sanitation and purification

For hundreds of years, we knew that some metals have the characteristic of purifying water from their ionization properties. One of the best metals that have this characteristic is copper. The copper ions released in the water kill algae, bacteria and viruses.

The research shows us that copper ions eliminate the growth of algae and bacteria in water.

The **IONISATEUR H.T.** ionic purification system releases controlled quantities of copper ions. Ionization is created via a process called electrolysis which is the conduction of an electric current through and between two electrodes. The electric current passes ions through positively and negatively charged electrodes. In the water, these charged particles destroy bacteria by changing their electrostatic nature.

The **IONISATEUR H.T.** ionizer is an electrical equipment which converts the alternative current (AC current) of 125 volts (with a differential switch) into direct current (DC current) of approximately 15 volts. The DC current is sent to the electrodes which are in direct contact with water and release copper ions.

The electrodes of the **IONISATEUR H.T.** water treatment system are manufactured from 99.9% copper. A system that uses copper is typically used in drinkable water refreshers where corrosion control and algae control are a constant and major concern.

Advantages of the IONISATEUR H.T. system

- Offers an ecological solution
- No handling of toxic chemicals
- No maintenance cost
- Functioning without monitoring or surveillance
- Very reliable system

All **IONISATEUR H.T.** ionic generator/regulators are manufactured with high quality electronic components and semi-conductors. **IONISATEUR H.T.** designates one microprocessor that precisely controls the exit and quantity of copper ions.

5-year limited warranty

The manufacturer of the **IONISATEUR H.T.** system guarantees that all electronic components will not have any defect for a period of five (5) years starting from the date of purchase. This applies and covers the initial purchaser only.

Our IONISATEUR H.T. system is unique and there is no other system like this on the market.