

# Electrolytic Bromine

## The Only Non-Hazardous Biocide for Cooling Water Systems

0411



- Electrolytic bromine is an oxidizing biocide, which is acknowledged to be the most effective type against Legionnaires' Disease by AWT, OSHA, CTI, and CDC. It is also very effective against biofilm, other bacteria, algae (seen in picture to the left), slime, fungus, and mold typically found in a cooling water systems.

- In marked contrast to other biocides, electrolytic bromine is not DOT or OSHA hazardous, eliminating safety problems and spill concerns from handling toxic, hazardous chemicals. The precursor for electrolytic bromine is a safe, aqueous solution of sodium bromide and sodium chloride (table salt).

- A “**green chemistry**”, after use, electrolytic bromine degrades back to non-toxic, naturally occurring bromide ion, no persistent toxic chemicals in the cooling tower blowdown.

- Electrolytic bromine is a single, cost effective replacement product for all biocides presently used for biological control of cooling water. A typical cost for treating 1000 gallons of cooling water with a biocide such as isothiazolin, \$3.45, or glutaraldehyde, \$4.67, is substantially higher than the \$0.28 for electrolytic bromine as delivered by a **MiniBrom** unit.

- ProChemTech has developed low cost electrolytic bromine delivery technology, the patented\* **ElectroBrom<sup>tm</sup>** and **MiniBrom<sup>tm</sup>** units, which make use of electrolytic bromine economic for any size of cooling water system.

**ElectroBrom** and **MiniBrom** units are manufactured and supplied as part of comprehensive water management programs by:

**ProChemTech International, Inc.**  
**“Innovation in Water Management”**  
Apache Junction, AZ, and Brockway, PA  
814-265-0959      [www.prochemtech.com](http://www.prochemtech.com)

Large system **ElectroBrom** unit shown to the right.

\* US patent 7,927,470

