

CROWN SOLUTIONS



AquaMAX 2.0

Electrochemical Cooling Water Treatment

 **VEOLIA**
WATER

Solutions & Technologies

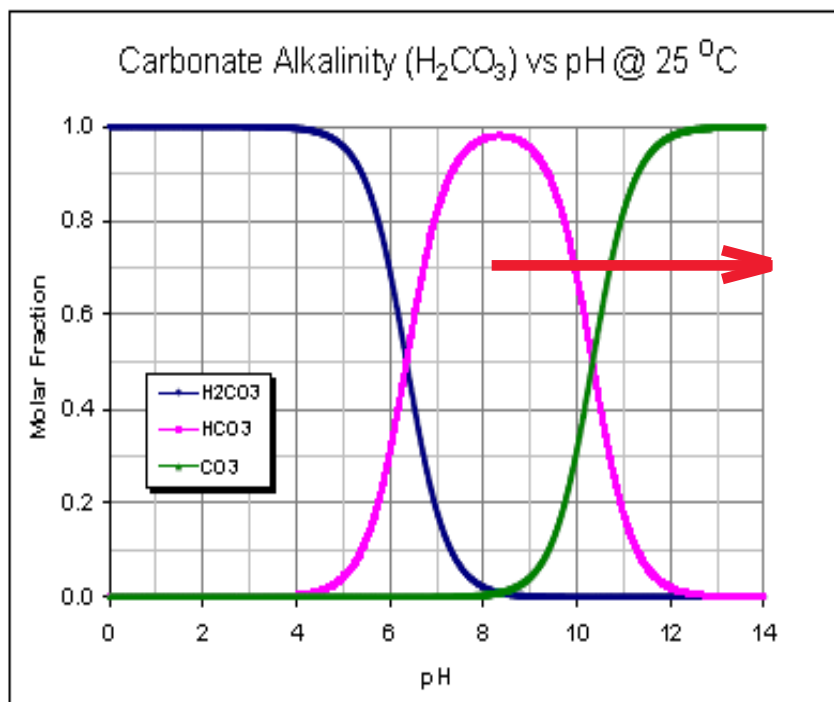
AquaMAX 2.0

Crown Solutions is a full-service industrial/commercial water management company with a focus on a cost-effective blend of service and technology. Crown is able to create and implement innovative, custom water solutions that reduce the overall cost of operation and compliance. As the name implies, Crown is a solutions company, which benefits the client through a sustainable, reliable water strategy.

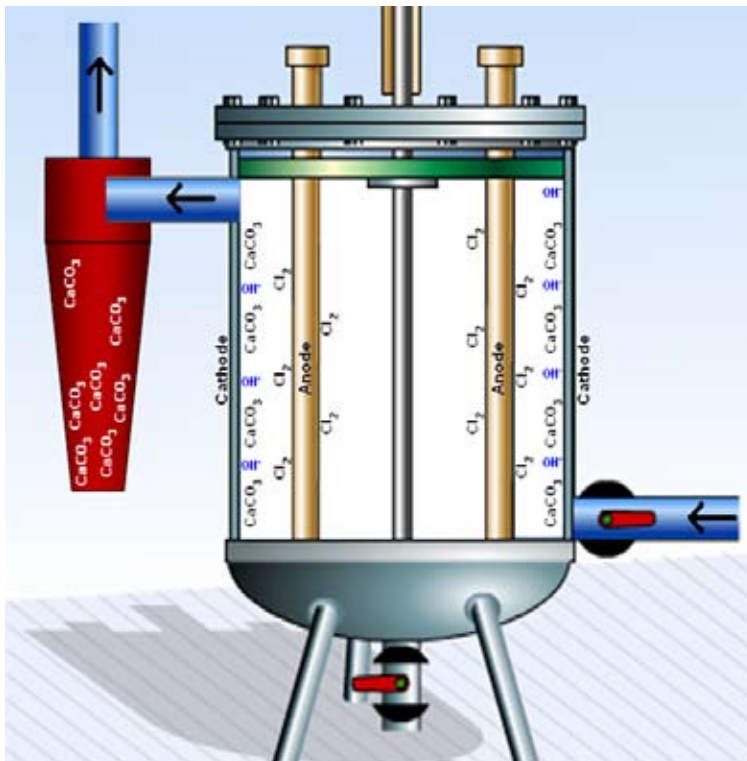
AquaMAX 2.0 is a proprietary technology that utilizes electrolysis to continuously process cooling water. A cooling tower treated with an AquaMAX 2.0 system significantly reduces or eliminates the need for traditional deposit/corrosion inhibitors or biocides to protect the surfaces in the cooling loop. Over the operating life of a cooling tower, the environmental impact of an AquaMAX treated cooling system is dramatically less due to the elimination of chemical production, freight shipments, packaging and disposal, as well as reduced water consumption.



The science of the mineral scale formation is mature and well understood. Higher temperature at the heat transfer surface shifts the carbonate equilibrium causing hard water deposits. The AquaMAX 2.0 system utilizes the well-known process of “Carbonate Precipitation” to reduce the concentration of scale forming compounds in recirculating water.



Proven Science & Engineering



AquaMAX 2.0

removes hard water compounds electrolytically in the reaction chamber before deposits can form on heat transfer surfaces.

Inside the Reaction Chamber:

- **Cathode:** precipitates calcium carbonate reducing the hardness salts and deposition potential in the water.
- **Anode:** produces a small but constant level of chlorine from the chlorides in the water that very effectively controls microbial growth in the cooling system.
- **Hard water:** deposits are removed from the wall of the reaction chamber and by the custom filtration system.

AquaMAX 2.0 is **creating water solutions** with proven results of:

- **Water Savings**
AquaMAX 2.0 can reduce the volume of cooling tower blowdown wasted to the drain by 75%.
- **Green Technology**
AquaMAX 2.0 system has a dramatic positive impact on the environment with no chemicals fed or discharged from the cooling tower system.
- **Scale Control**
Hardness salts precipitate in the AquaMAX 2.0 reaction chamber rather than in the system heat exchangers.
- **Microbiological Control**
Excels at managing cooling water systems at or below typical bacterial control levels.
- **Corrosion Control**
The corrosion potential is controlled since the bulk water is not aggressive.
- **Safe Environment**
Without the handling of toxic and hazardous chemicals, AquaMAX 2.0 reduces safety risks for all employees

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Crown Solutions is a business unit of Veolia Water Solutions & Technologies (VWS), the technology subsidiary of Veolia Water. VWS is a design & build company and world leader in differentiating solutions in water treatment for industrial companies and municipal authorities.