



Moss Briefs:

ProMoss™ Cleans Up a 1300 Ton Hospital Cooling Tower

A major medical facility in the Southeast US recently implemented a ProMoss™ trial on their 1,300-ton HVAC cooling tower system. The system had been operating under a conventional chemical treatment program utilizing an inhibitor product and two microbicides. Conditions at the start of the trial are summarized below.

The system had higher than expected bacteria levels with correspondingly high ATP values. Water clarity was poor and there were significant iron and copper levels present indicative of active corrosion occurring in the system.



Total Bacteria Count
10⁷ CFU/ml

ATP – 2610 RLU's
Turbidity – 28 NTU's
Iron – 1.69 ppm
Copper – 0.42

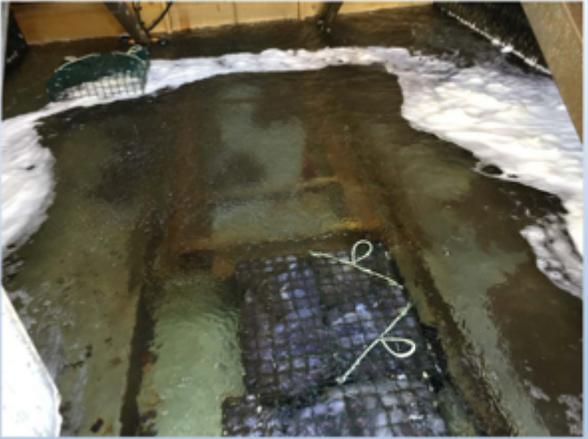
Start of Trial – on Chemical Treatment



ProMoss™ was introduced to the system using cages dropped into the cooling tower sump. All chemical feed was discontinued. After two weeks, the following conditions were observed.

The ProMoss™ program had affected the following changes on the system:

- Total bacteria counts dropped from 10⁷ to 10² CFU/ml
- ATP dropped from 2,610 to 126 RLU's reflective of the bacteria count drop
- Water clarity (turbidity) improved significantly dropping from 28 to 2 NTU's
- Iron levels were reduced from 1.69 ppm to 0.02 ppm
- Copper levels were reduced from 0.42 to 0.29 ppm



Total Bacteria Count
10² CFU/ml

ATP – 126 RLU's
Turbidity – 2 NTU's
Iron – 0.02 ppm
Copper – 0.29

Two Week's Into ProMoss Trial

Providing naturally pure, healthier water.



Throughout the 3-month trial total bacteria counts remained in the 10^2 to 10^3 range with ATP values averaging 182 RLU's. This was impressive considering the trial was conducted during the high load Summer season, which places the highest demand on microbiological control. Iron and copper levels averaged 0.09 ppm and 0.21 ppm respectively during the trial.

This facility is currently considering switching all of their cooling tower systems to ProMoss™. In order to meet generally accepted Legionella guidelines, SEL also recommended supplementary disinfection generators that utilize UV lamps to generate hydrogen peroxide. This green and innovative program will result in removal of all cooling tower treatment chemicals from the site.

KEY RESULTS

- Improved Water Quality
- Improved Air Quality
- Stabilized pH and Alkalinity
- Reduced Scale and Staining
- Reduced Corrosion



KEY BENEFITS

- Reduced Chemical Usage
- Reduced Water Usage
- Reduced Energy Usage
- Reduced Maintenance

Creative Water Solutions

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