

750 Ton BAC Cooling Tower



Pre-existing Condition

Incoming Make-Up Water and Performance

• TDS:	260
• Conductivity:	406
• pH:	9.0
• Total Hardness:	120
• Calcium Hardness:	27
• Alkalinity:	108
• Condenser Fouling: (during season)	Severe
• Incoming & Outgoing Delta T:	Δ 4° - 6°
• Biofilm:	Severe

Chemical Treatment Program (Out Sourced)

• Seasonal Chemical Treatment:	\$7,000
• Seasonal Maintenance: (monitoring, tube punching, tower cleaning)	\$5000
• Seasonal Water Usage:	800,000 gallons

The Solution

Installed eH₂O Chemical Free Water Treatment System

- **Environmentally Friendly:** 100% Chemical Free Water Treatment.
- **Tri-Tron Pulse**, precipitates hardness minerals from the water.
- **Sani-Tron UV Light** deactivates the DNA of bacteria, viruses and other pathogens.
- Bag Filtration polishes water to remove dirt, debris, and solids.
- **MicroTron** conductivity monitoring ensures **100% efficiency**.
- Coupon rack to monitor the efficiency of the systems corrosion control.



The Results

System Performance Benefits

System Performance Benefits	Savings
• Annual Chemical Costs Eliminated:	\$7,000
• Reduced Maintenance Cost:	\$5,000
• Annual Water Savings: (50% bleed reduction)	120,000 gallons
• Energy Savings: (biofilm)	\$35,000
• Microbiological Control: (Biofilm elimination)	Excellent
• Water DeltaT	Δ 10° - 12°



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