

# 4600 Ton Cooling Tower



## Pre-existing Condition

### Incoming Make-Up Water and Performance

• TDS:	448
• Conductivity:	700
• pH:	9.3
• Total Hardness:	176
• Calcium Hardness:	41
• Alkalinity:	44
• Tube Brushing	Yes
• Incoming & Outgoing Delta T:	Δ 7° - 9°
• Biofilm:	Yes

## Chemical Treatment Program

• Seasonal Chemical Treatment: (Industry Standard)	\$41,400
• Seasonal Maintenance: (monitoring, tube punching, tower cleaning)	\$5,000
• Seasonal Water Usage:	214 gpm

## The Solution

### Installed eH<sub>2</sub>O 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

• Annual Chemical Costs Eliminated:	\$41,400
• Reduced Maintenance Cost:	\$5,000
• Water Savings: (@ \$9.97/1000 gal)	\$69,800
• Energy Savings: (100% tube brush elimination)	\$136,000
• Microbiological Control: (0 - 1000 cfu)	Superior
• Water DeltaT	Δ 10° - 12°
• Biofilm	None
• Algae	Greatly Reduced



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