

100 Ton Berg Cooling Tower Injection Mold Process Plant



100 Ton Berg
Cooling Tower

Pre-existing Condition

Existing Water Chemistry

• Particles (TDS):	872
• Conductivity:	1746
• pH:	9
• Total Hardness:	790
• Calcium Hardness:	325
• Alkalinity:	580
• System Back Pressure:	35 psi
• Heat Exchange Water:	Δ 5°- 8°

Chemical Treatment Program (Outsourced)

• Seasonal Chemical Treatment:	\$2,400
• Seasonal Maintenance: (heat exchangers equipment)	\$3,000
• Seasonal Water Usage:	90,000 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

- Chemical Cost Eliminated:
- Reduced Maintenance Cost:
- Water Savings: (Zero Bleed)
- Energy Savings: (18psi)
- Microbiological Control (Zero Bacteria)
- Heat Exchange Water:
- Conductivity:

Savings

\$14,400
\$18,000
\$8,640
17 psi pump reduction
Drinking water standards
Δ 10° - 15°
616 su



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