



## Ozone Systems For Cooling Towers

**Saves Water and Energy and Contributes to LEED™ Credits**

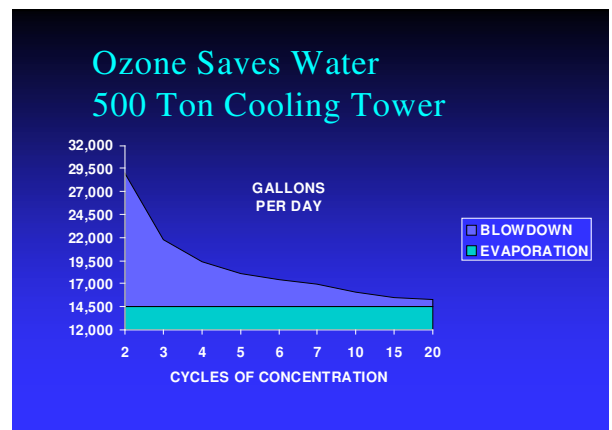


**Description:** Clean Streams™ Ozone Systems for Cooling Towers provide a stand-alone, continuous, and automated treatment for cooling water systems. Ozone keeps heat transfer surfaces free of biofilm for better heat transfer which saves energy and allows for higher system cycling without chemicals, resulting in significant water savings. Scale and deposits are controlled by preventing biofilm development, thereby preventing scale to form or deposits to accumulate. Corrosion is controlled by cycling up the water's mineral content and alkalinity to a level that is outside the corrosion range.

Ozone is a powerful biocide that kills all microorganisms through oxidation, destroying them and leaving no chance for developing an immunity that often occurs with chemical biocides. Ozone treated cooling systems are noted for the clarity and low bacteria counts of the recirculating water. In a typical ozone treated system, bacteria counts are less than 100 per ml, and often non detectable. The superior disinfection power of ozone prevents biofilm growth and provides protection against pathogenic organisms like Legionella pneumophila, the causative agent of Legionnaire's disease that is often traced to contaminated cooling water systems.

**Water Savings:** On a tower of 500-ton capacity, water savings of over 3 million gallons per year can be realized, based upon operation of the tower at 10 cycles of concentration with ozone versus 3 on chemical treatment.

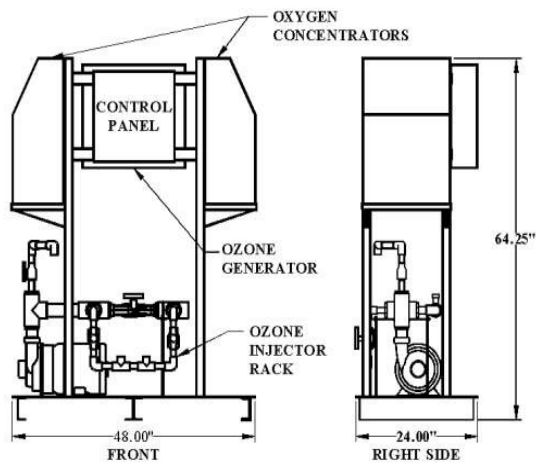
**Energy Savings:** Because ozone maintains critical heat transfer equipment free of insulating biofilm and scale, more efficient heat transfer occurs in condensers resulting in significant energy savings. Energy savings have been reported from from 2 to 20%.



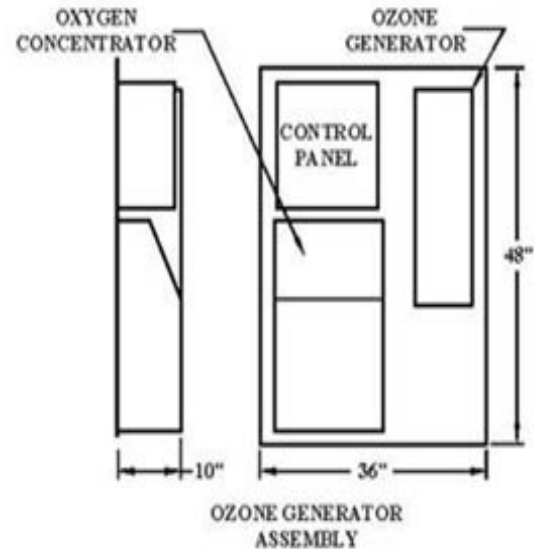
### LEED™ Credit Possibilities with Clean Streams™

- EA Credit 1 - Optimize Energy Performance
- WE Credit 1 - Water Efficient Landscaping
- WE Credit 2 - Innovative Wastewater Technologies
- WE Credit 3 - Water Use Reduction

## Drawing of Skid Mounted Unit



## Drawing of Wall Mounted Unit



## Specifications:

MODEL	Tons	Dimensions	Electrical	Notes
CS-200W	200	4ft X 3ft	120V, 30A, 1 Phase	Wall mounted
CS-400W	400	4ft X 4ft	120V, 40A, 1 Phase	Wall mounted
CS-400S	400	4ft X 2ft X 5.3ft	120V, 40A, 1 Phase	Skid mounted
CS-600S	600	4ft X 2ft X 5.3ft	208V, 30A, 1+N	Skid mounted
CS-850S	850	4ft X 2ft X 5.3ft	208V, 30A, 3+N	Skid mounted
CS-1200S	1200	Call Sales	208V, 30A, 3+N	Skid mounted
CS-1700S	1700	Call Sales	208V, 50A, 3+N	Skid mounted
CS-2800S	2800	Call Sales	208V, 70A, 3+N	Skid mounted

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