



Clean Streams™

Ozone Systems For Cooling Towers

Saves Water and Money, Eliminates Chemicals and Improves the Treatment and Safety of Cooling Water Systems

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 and allows higher system cycling without chemicals, resulting in significant water savings. Scale and deposits are controlled by preventing biofilm development on surfaces, thereby preventing scale to form or deposits to accumulate. Corrosion is controlled by cycling the water's mineral content up 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.

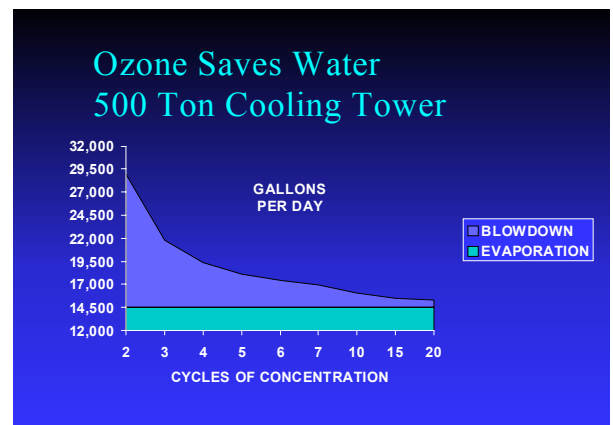
Benefits of Clean Streams™:

- **Eliminates Chemicals** - No spills, no drums to handle or dispose.
- **Automated System with Full Service** - Provides full time treatment and simplifies operation.
- **Lowers Operating Cost** - Lower water cost and more efficient heat transfer.
- **Makes Workplace Safer** - No chemical exposure.
- **Blowdown Contains No Hazardous Chemicals** - Can avoid discharge to sewer and makes alternative uses, such as irrigation, possible.
- **Saves Water** - Operate system at higher cycles of concentration.
- **Reduces Tower Maintenance** - Fewer cleanouts required

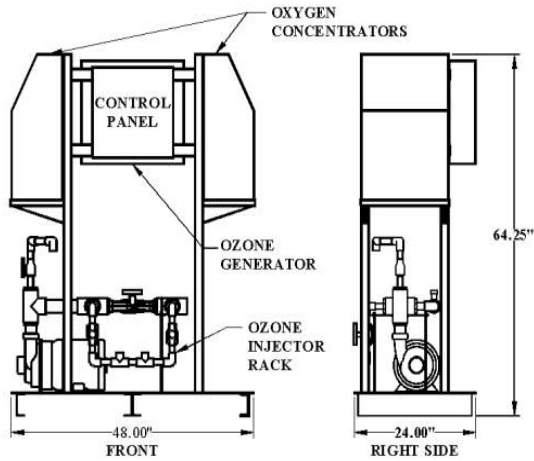
Typical Water Savings: On a tower of 500-ton capacity, water savings of over 3 million gallons per year can be realized, based upon operation of the tower at 10 cycles of concentration with ozone versus 3 on chemical treatment.

This equates to a savings of \$15,300 per year on water alone, and a payback on the ozone system of 19 months. Larger systems have quicker paybacks – a 1000-ton tower can have a payback in about one year.

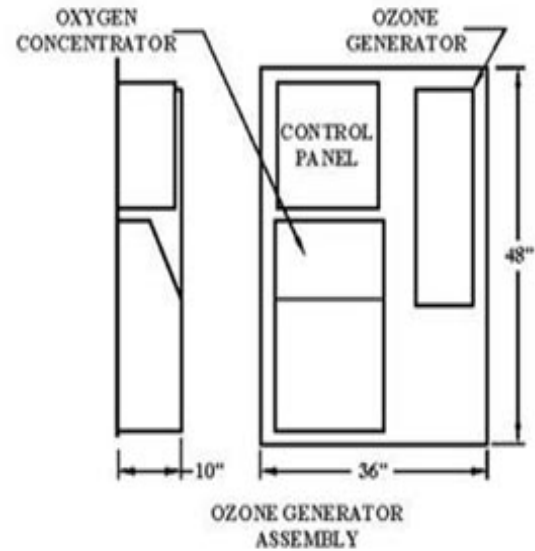
Leasing the system can also be an attractive option and in most cases produce positive cash flow savings from the first day of operation.



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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