

Save Water Three Ways

Increase Cycles of Concentration + Eliminate Discharge to Sewer + Reuse Discharge

Drivers For a New Paradigm For Water Efficiency

- ✓ **Environmental Drivers**
Pollution impacts surface water and waterways and decreases potable water supply
- ✓ **Water & Chemical Scarcity**
Tightened supply and increased demand raises prices and prolongs delivery of chemicals.
- ✓ **Operating Costs**
Operating a cooling system is resource intensive. Water and sewer costs are 25% of total operating budget

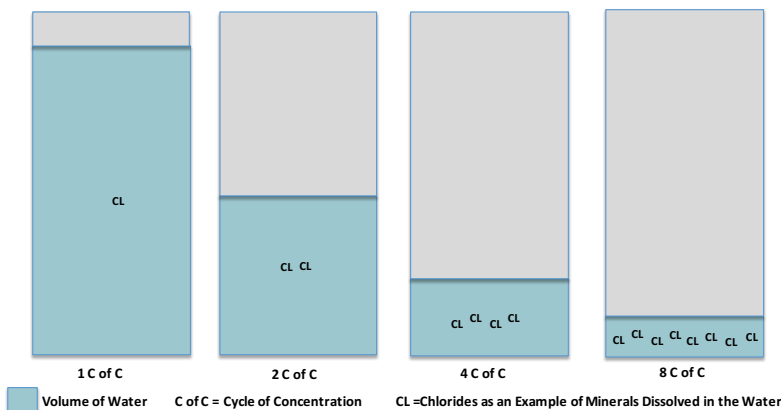


Measuring Water Efficiency: Cycles of Concentration (C of C)

C of C is the term used to indicate the number of times minerals dissolved in a particular volume of water are concentrated. Cooling Towers evaporate water and leave the dissolved minerals behind, in a still-dissolved but more concentrated state. We will use Chlorides (Cl) for our example.

Total Condenser Water in a Cooling System at a Moment in Time

Wave 2.0™ water treatment allows the tower to cool the same cooling load at 8 C of C, as at 1 C of C, while using significantly less water.



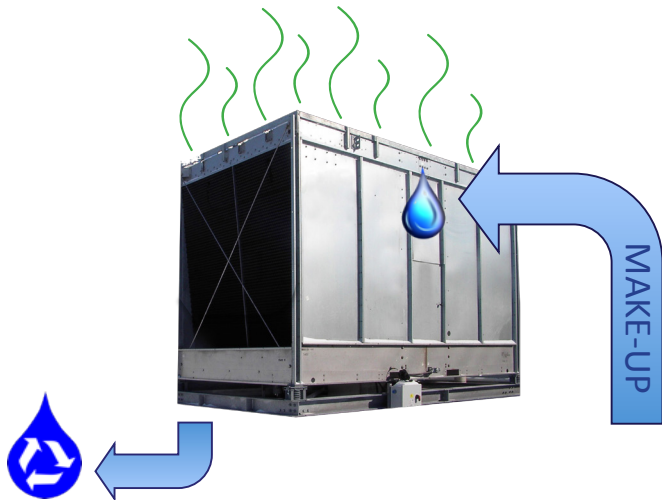
- IntegraClean 2.0™ Water Treatment achieves higher C of C, which saves water and means less discharge water and lower overall water use.
- Chemical Water Treatment achieves lower C of C, which wastes water (and requires more chemicals to treat) and means more discharge water and greater overall water use.



Cooling Tower Water Treatment Reality*

NON-CHEMICAL

IntegraClean 2.0™



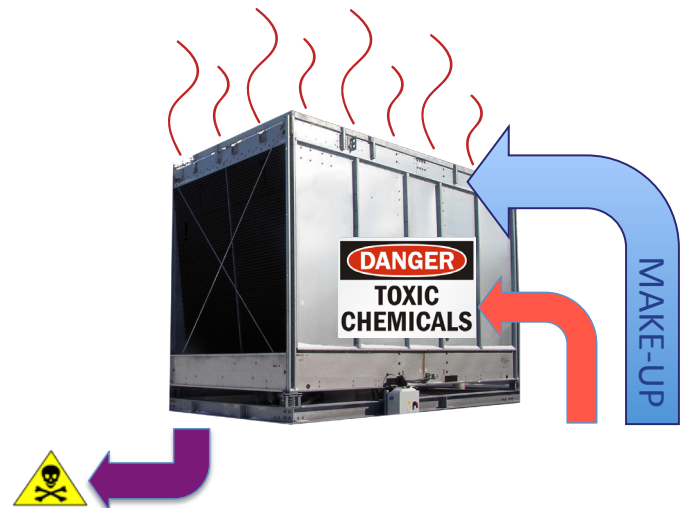
- 15 Million Gallons of Make-up Water
- 12 Million Gallons Evaporated
- 3 Million Gallons Chemical-Free Discharge
- 3 Million Gallons Saved by Efficiency (C of C)

5 Cycles of Concentration

- ✓ More than 25% can be conserved
- ✓ **NO CHEMICALS** avoid rising chemical-delivery cost
- ✓ Discharge to Ground – No Sewer Fees
- ✓ Re-use saves additional 3 Million Gallons of water

Annual cost savings between these two identical 1000 ton cooling towers, operated at 75% of load, 24/7, and treated as above: \$183,000 without reuse of discharge water. Discharge water used for other potable water uses increases water savings to \$323,000.

CHEMICAL

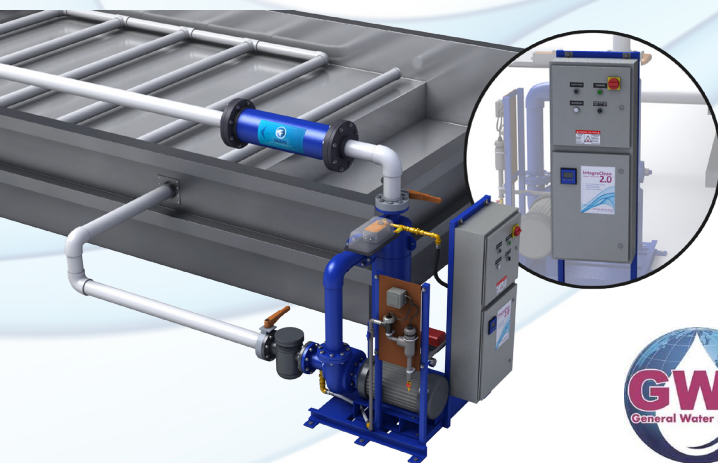


- 18 Million Gallons of Make-up Water
- 12 Million Gallons Evaporated
- 6 Million Gallons Discharged to Sewer
- Discharge Laden With Toxic Chemicals

VS.

3 Cycles of Concentration

- ✗ 135 Gallons of Chlorine-Oxidizing Biocide
- ✗ 225 Gallons of Corrosion Inhibitor/Scale Preventer Mix
- ✗ 80 Gallons of Non-Oxidizing Biocide



IntegraClean 2.0™ is the only product that guarantees maximum water savings along with reliable, sustainable water treatment.

Contact Griswold Water Systems or visit our website to find your local representation.



General Water Systems, Inc. | 1525 East 6th Sixth Street | Corona, CA 92879
951.278.8992 | <https://gwslp.com> | info@gwslp.com