

# The Garratt-Callahan *LUMITRAC*<sup>®</sup> High Cycle Water Conservation Program

Efficient Water Treatment  
that Conserves Water



- Potential to reduce water use by over 70%
- Optimized High Cycles With Minimized Scaling and Fouling
- Continuous monitoring and reliable efficient treatment

Water is quickly becoming an expensive commodity and its cost, purity, and availability are top concerns for anyone using water in an industrial application. Some water conservation programs fail because they impede the mission critical work. With the G-C program you can conserve water and increase the efficiency of your water treatment program.

The *Garratt-Callahan LUMITRAC*<sup>®</sup> High Cycle Water Conservation Program will help meet your conservation goals, ensures superior system efficiency, and reduces costs. See how...

## Significant Water Conservation

In a real industry application the *G-C LUMITRAC*<sup>®</sup> High Cycle program successfully reduced water use more than 70%. (Not all water treatment systems are equal and your system could experience more than a 70% water reduction.)

## A Custom, Precision System

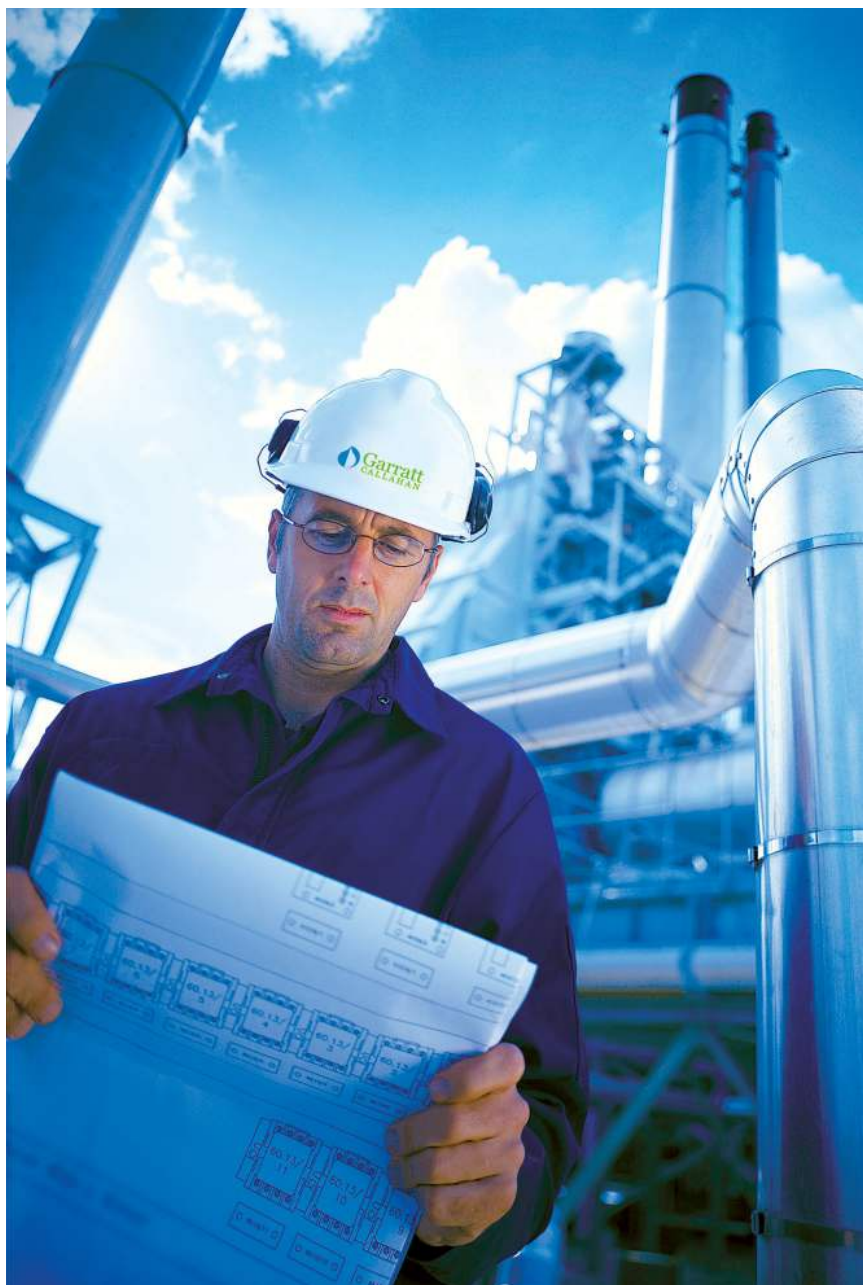
First, our laboratory evaluates your water sources to determine the most effective steps for creating a high cycle program. Then, based on your onsite discharge issues, water conservation goals, and capital resources, our engineers design your system. Ion exchange, reverse osmosis, filtration and/or other proven technologies combined with high stress inhibitor chemical technology are used to maximize cycles and minimize scaling and fouling risks.

## Continuous, Automated Monitoring

The *G-C LUMITRAC*<sup>®</sup> maintains your system's critical parameters, tests and treats reliably, detects issues early, reduces maintenance, manages data, and generates reports – in real time from any location. Your water treatment program is calibrated to the specific make-up of your source water and operation requirements. The *G-C LUMITRAC*<sup>®</sup> system will maintain and monitor the exact dose of product and optimize cycles of concentration.

## Service and Support

As partners in the shared goal of conserving water and ensuring your system's optimization, G-C personnel will be there for you with training, system monitoring, and equipment support.

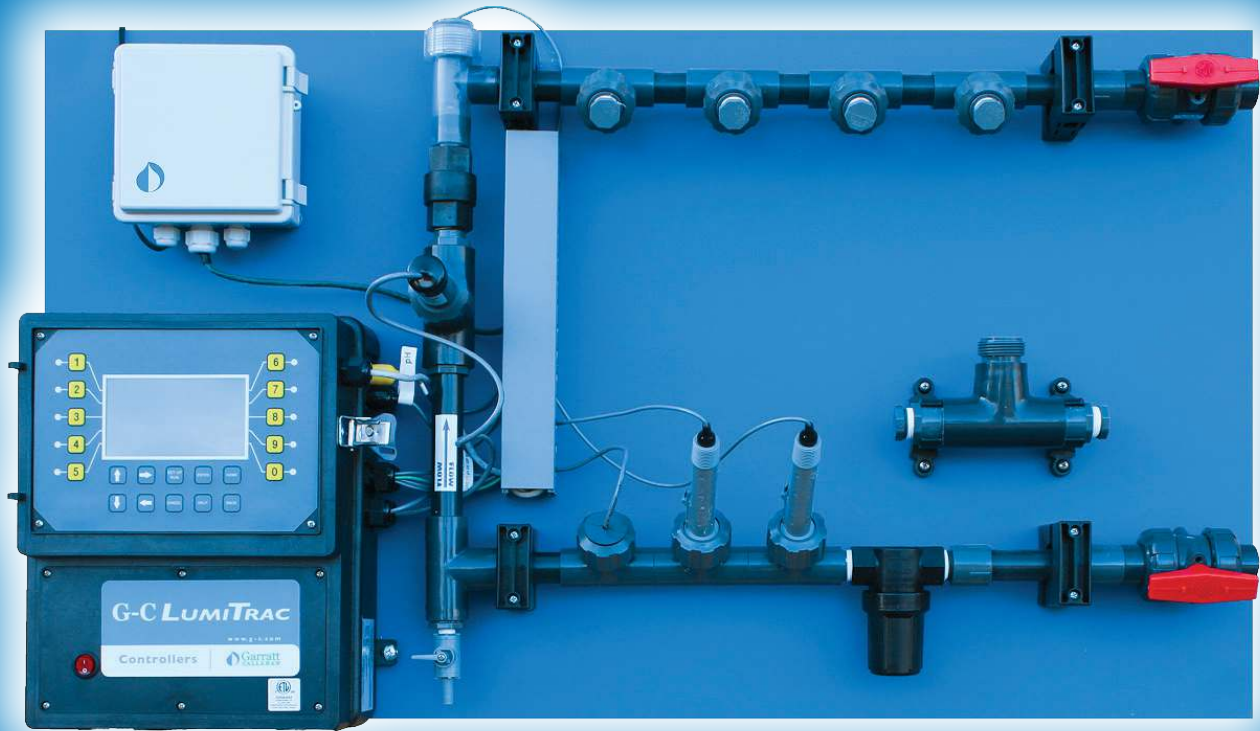


## Case Study: Reducing Water Consumption of a 2300-ton Cooling Tower

| Client Needs:  | G-C Delivers:  |
|--|--|
| Increase cooling tower operation from 4 cycles to High Cycles    | 10 cycles utilizing a twin alternating softener and proprietary inhibitor formulations to achieve the program goal           |
| Reduce blowdown by 70%   | Reduced blowdown by 73%  |
| Reduce chemical consumption                                      | Reduced chemical consumption by 25%  |
| Provide accurate control and remote monitoring                   | G-C LUMITRAC® web-based remote monitoring system, automatic feed systems and online hardness monitor                         |
| Create automated control systems                                 | G-C LUMITRAC® remote control and feeding feature   |
| Build safeguards against cooling loss in event of system failure | G-C LUMITRAC® early alert system   |
| Reduce operating cost and demonstrate positive ROI               | The G-C LUMITRAC® High Cycle Water Conservation Program saved water, increased water treatment efficiency, and met ROI goals |



G-C LUMITRAC HC Program can increase the efficiency of your water treatment system, help maintain its mission critical functions, while supporting your water conservation goals.



## About Garratt-Callahan.



Garratt-Callahan is a recognized provider of expert industrial water treatment solutions. By offering products, services, and support backed by over 115 years of experience, we deliver peace-of-mind and real savings in time, manpower, and resources. What we do positively impacts our customer's ability to conserve energy, reduce water consumption and become more environmentally conscious. At Garratt-Callahan expertise matters and has since 1904.

Discover more at [www.garrattcallahan.com](http://www.garrattcallahan.com) [f](#) [t](#) [in](#) [v](#) [y](#) [@garrattcallahan](#)

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 **Garratt**  
**CALLAHAN**  
Water Treatment Expertise Since 1904