



TREATING WATER. **BETTER.**

The Silver Bullet for buildings saves big on water and energy

Slashes operating costs while qualifying for LEED credits



www.silverbulletcorp.com

Cooling towers account for up to half of the average building's water use. Before now, maintenance required traditional chemicals that have to be carefully transported, handled and stored.

The Silver Bullet water treatment process changes all that by deploying a chemical process known as 'Advanced Oxidation Process' or AOP. It modifies ambient air to generate hydroxyl radicals that kill dangerous bacteria, remove scale, and prevent corrosion—all while slashing water and electricity use, decreasing operating costs and earning LEED credits for your building.

The systems are incorporated into a leased program that includes regular water analysis and service. The systems can be installed in less than a day, with no interruptions in electric or HVAC service.



Results

SAVES WATER

The Silver Bullet system reduces cooling tower water consumption by up to 35% by increasing cycles of concentration, delivering significant water and cost savings. The water savings delivered by Silver Bullet helps buildings earn LEED credits and water rebates.

SAVES ENERGY

The Silver Bullet system saves energy by increasing heat transfer efficiency. If Silver Bullet's technology were installed on 20,000 cooling towers—just 1 percent of the commercial cooling towers in the United States—electricity consumption could be reduced by more than 1,200 megawatts of power. The energy savings delivered by Silver Bullet also helps buildings qualify for LEED credits.

KILLS HARMFUL BACTERIA

The Silver Bullet water treatment process is a non-toxic biocide that kills harmful bacteria upon contact, greatly reducing the threat of Legionnaires' disease originating from cooling tower water contamination.

A University of Pittsburgh study found that Silver Bullet reduced the average free-floating HPC bacteria concentration by 98.8%; immobile HPC bacteria concentration by 85.9%; and free-floating Legionella by 78.1%, performing significantly better than all six non-chemical devices previously evaluated.

CAN REDUCE CHEMICAL USE

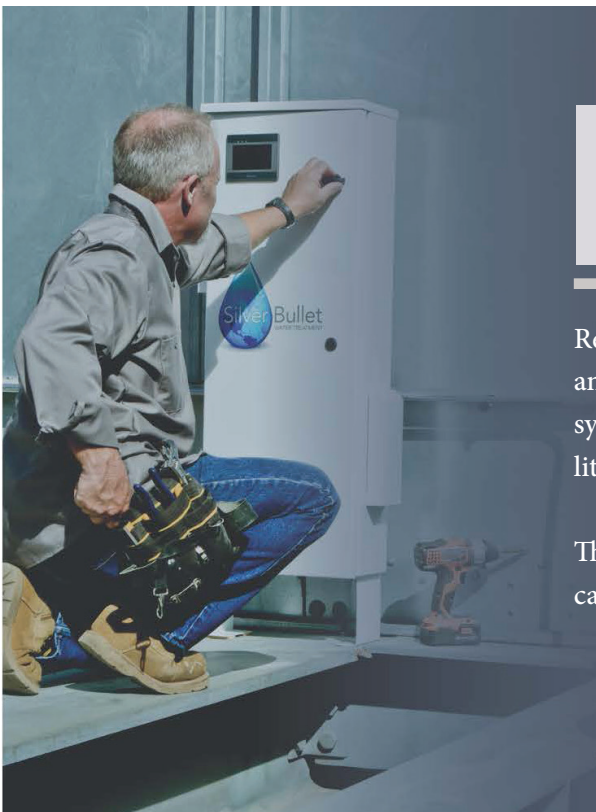
By reducing the need to transport, use, store and dispose of chemicals for the purpose of cooling tower water treatment, Silver Bullet reduces operating costs, enhances environmental health and promotes worker safety.

REMOVES SCALE

The Silver Bullet system also controls scale buildup. Water treatment with the Silver Bullet system attacks scale on the heat transfer surfaces of a cooling system, chipping away or dissolving the calcium carbonate into water. Removal of just 1 millimeter of scale improves the energy efficiency as much as 12%. Because the oxygen ions are negatively charged, they hold the calcium and mineral ions in suspension. This allows for more energy efficient cooling towers and high cycles of concentration, which saves water.

CONTROLS CORROSION

Increasing calcium and other minerals in water through increased cycles makes water less corrosive to system piping. As water treated by Silver Bullet works to keep calcium off the walls and suspended in solution, it remains less reactive than chemically treated water and within accepted corrosion rates. Based on corrosion coupon analysis reports from numerous installations, Silver Bullet has demonstrated the ability to stay well within the industry's accepted corrosion rates as well or better than traditional chemical treatments.



Easy Installation. No Upfront Capital Costs.

Retrofitting is easy. The initial installation takes less than a day and can be activated with no disruption to HVAC or electrical systems. Once installed, the Silver Bullet system requires very little ongoing maintenance other than monthly water testing.

The system is rented by the month and requires no upfront capital investment, only a nominal one-time installation fee.

Case Studies and Testimonials

Silver Bullet is delivering water and energy savings and multiple other benefits to hotels, commercial and government buildings, data centers, museums and more across North America.

NORAD Cheyenne Mountain



CHEYENNE MOUNTAIN COMPLEX

INSTALLATION DATE: October 2008

LOCATION: Colorado Springs, Colorado

- Enhanced security by eliminating need to transport chemicals in and out of facility
- Water savings: over 1 million gallons/year
- No maintenance issues in over six years

Sky Ridge Medical Center



280-BED HOSPITAL

INSTALLATION DATE: April 2009

LOCATION: Lone Tree, Colorado

- Water savings: Over 750,000 gallons/year
- Received \$12,000 rebate from water municipality for significant water reductions
- Bacteria count reduced to nearly zero, virtually eliminating threat of Legionnaires' disease originating from cooling tower water contamination

"I would highly recommend this technology, not only for the cost savings, but for an organization's ability to go 'Green' with a system that truly delivers."

*—Karl Anderson,
Plant Operations Manager*

The Willard InterContinental



335-ROOM LANDMARK HOTEL

INSTALLATION DATE: March 2013

LOCATION: Washington, D.C.

- Supports the hotel's responsible business and sustainability efforts
- Water savings in first three months: approximately 500,000 gallons
- Energy savings in first three months: 14,000 kWh
- Promotes a safe environment by:
 - Eliminating the storage and transport of toxic chemicals
 - Eliminating risk of toxic chemical spills
 - Reducing maintenance and operating costs
 - Delivering water savings

"The Silver Bullet installation underscores the hotel's commitment to a cleaner, more efficient way to provide a healthy, sustainable hotel environment. We appreciate the opportunity to be among the first commercial entities in the nation's capital to utilize this cost-effective and environmentally-sound technology."

*—Patrick Birchall,
General Manager of the
Willard InterContinental and
Regional Director of Operations
for the mid-Atlantic*



Case Studies and Testimonials (cont.)

Denver Museum of Nature & Science



500,000-SQUARE-FOOT BUILDING

INSTALLATION DATE: October 2012

LOCATION: Denver, Colorado

- Water savings: 1.3 million gallons/year
- Reduced maintenance, labor and operating costs

"It took care of the scaling issue and we have no more biological contamination in the tower. No more chemicals. The ease of the Silver Bullet is why I would recommend it to other building engineers."

— Lance Clark, Building Engineer

20 M Street at Navy Yard Metro



190,000-SQUARE-FOOT OFFICE BUILDING

INSTALLATION DATE: August 2011

LOCATION: Washington, D.C.

- Added to the sustainability of a previously LEED Gold certified building
- Substantial water savings
- A cleaner cooling system with greatly reduced scale
- Reduced maintenance and labor costs

"The installation was very easy: plug and play. The maintenance on the Silver Bullet equipment is negligible in comparison to conventional water treatment systems. After 16 months of extensive testing, we have installed this across our entire portfolio."

— Wayne Myers,

Director of Operations, Lerner

"We expect to save millions of gallons of water and tens of thousands of kilowatt hours of electricity, allowing us to decrease the overall operating costs and increase the sustainability of our properties without any investment of capital."

— Scott Mead, Managing Director of Commercial Property Management, Lerner

1100 New Jersey Avenue



298,000-SQUARE-FOOT OFFICE BUILDING

INSTALLATION DATE: August 2011

LOCATION: Washington, D.C.

- Water savings: millions of gallons of water saved since installation
- Reduced labor
- Safer work environment
- Simplistic
- 24/7 operational peace of mind
- Environmentally friendly

"Federal Gateway was the first commercial building in the Washington, DC metro area to embrace the cutting-edge technology of the Silver Bullet Water Treatment Company; bringing them on board was easy and has proven to be a smart move both financially and environmentally."

— Karl Morgan, Chief Engineer, WC Smith Property Management



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SIEMENS