

Trust the experts.

IM® offers comprehensive service plans for maintenance, major repairs and spare parts in cooling towers of all brands





Silver Bullet®: more efficent towers

Silver Bullet® is a non-traditional chemical water treatment system that prevents bacteria, scale and corrosion in your tower, resulting in higher efficiency and energy savings.

How does it work

Silver Bullet

The ambient air enters the reactor through pumps.

The UV light and patented magnetic fields transform the room air into oxygen radicals.

Oxygen Radicals, upon contact with water, form hydroxyl radicals.

Hydroxyl radicals work as a potent biocide, controlling microbiological growth in the cooling tower.

The hydroxyl radicals oxidize the organic matter in the water, keeping it clean and removing scale, so that the systems can work properly, improving the efficiency of the cooling system.



- Protection against microbes, scale and corrosion
- ✓ Water savings between 10-30% when the tower concentration cycles are increased
- ✓ It eliminates the use of toxic chemicals
- The equipment is leased on a monthly basis
- ✓ LEED Credits for green buildings
- ✓ NSF certification 61 for human consumption

vs. Chemical Treatment	SCALE Control	BIOCIDE	CORROSION	EXISTING Incrustation	ENERGY SAVINGS	WATER SAVINGS
Silver Bullet®	Full, 100% of the time.	Full, 100% of the time.	Lower than industry / ASHRAE standards.	Completely removed with normal operation.	Increased heat transfer efficiency by removing the scale on system pipes and surfaces.	Make-up water consumption is reduced by 10%-30%.
Traditional system with chemicals	Incomplete unless chemicals are added constantly.	Toxic chemicals needed to operate. Incomplete unless chemicals are added constantly.		and additional costs required.	Less efficient heat transfer due to incrustations, which increases energy consumption.	It needs high purges to prevent reversal of treatment chemicals and CC.



You can count on our trained technicians to maintain the optimum performance of your tower.

Silver Bullet®

Basic Maintenance involves the installation of a Silver Bullet[®] equipment defined by the volume of water to be treated in the tower.

Maintenance Programs

Mechanical maintenance

- ✓ Full inspection of the equipment, verifying factory settings
- Verify air-tightness and check that there are no leaks, drag, or pipes affecting equipment efficiency.
- ✓ Inspection of water distribution system and proper functioning of its jets
- Verify that the hydraulic inlet, outlet, drain, overflow and water replenishment connections are correct
- ✓ Inspect the quality of recirculation water according to the recommended parameters, and present alternative solutions for your system
- ✓ Inspection of torque and bolts in mechanical equipment, alignment and factory settings for the motor system
- ✓ Inspection of ventilation systems according to specified torques, alignment, angles and design settings
- Check vibration in motor systems comparing against your ISO10816 standard
- Cleaning of cold and hot water basins, as well as their transfer areas
- ✓ Inspection of oil levels in gearboxes, verification of operating conditions and protection recommendation
- ✓ Installation of Silver Bullet[®] equipment defined by the volume to be treated in the tower

Silver Bullet[®] + Mechanics

Plus Maintenance includes the installation of the Silver Bullet® equipment plus all mechanic maintenance for the tower.

Silver Bullet® + Mechanics

- + Periferal equipment

Ultra Maintenance covers also peripheral equipment, such as loop pumps, boiler, hot water tanks, plate exchangers, among others.

At IM we work for you

Design & Innovation

We are involved in continuous research and develop unique solutions for cooling towers. Our efforts are always aimed at efficiency, performance and savings. This determination is what has gotten us so far.

Service & Experience

50 years of experience say it all. We have successfully worked in all industries, and we are capable of solving any situation. Our mission is to produce the best towers and keep them working with efficiency.

Applied Engineering

With the support of the engineering department, we develop turnkey projects, integrating our thermal dissipation equipment to the different equipment or processes owned by the client.

Automation & Energy Saving

Automation is the future and, at IM, we have developed forefront controllers in order for your towers to work in the most efficient way possible all the time, thereby producing energy savings that benefit us all.

We have the ideal tower

At IM, we are involved in continuous research and develop unique solutions for every industry.

PRE-PACKAGED TOWERS

M





COUNTERFLOW



INDUCED-DRAFT TWIN-CROSS FLOW









CROSS-FLOW

SPARE PARTS

We offer you a wide range of spare parts for IM towers and other brands.

For further information, call or write to us at:

+52 (81) 1158-5300 info@industrialmexicana.com

www.industrialmexicana.com