

Rethink your cooling water treatment.

SAFE

Protect your people
and equipment.

SIMPLE

Increase operating
efficiency.

SUSTAINABLE

Reduce water,
energy and waste.

3D TRASAR™ SOLID COOLING WATER PROGRAM

Reinventing the Way Water Is Managed

3D TRASAR™ + **SOLID CHEMISTRY** + **Patented Equipment**



Gain greater control

Covered by 27 patents, 3D TRASAR technology combines solid chemistry and patented equipment for a compact and easy installation in your building. Proprietary software provides the security and control of real-time measurement. When any key water parameter moves beyond strategy limits, the controller responds instantly. Non-pressurized biocide feeders with improved feeder safety increase operating efficiency and provide peace of mind.

Reduce operating costs and extend equipment life

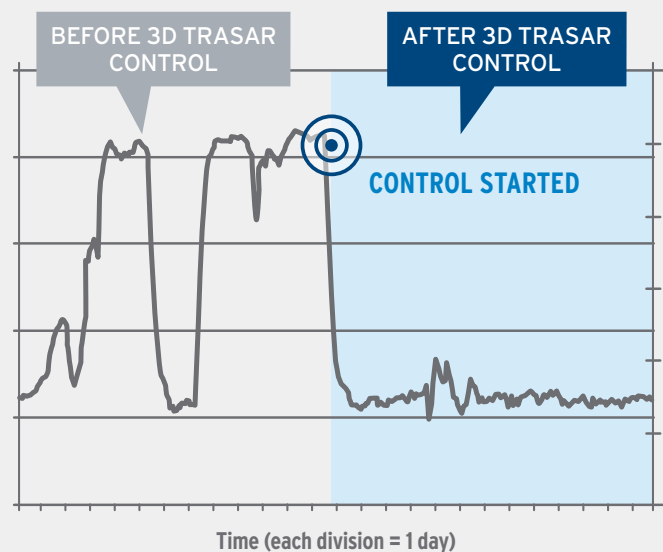
The 3D TRASAR Solid Cooling Water Program will help you lower equipment and disposal costs. It will enable you to adhere to the best practice of biocide feed which is critical to maintaining the health and performance standard of a cooling tower and the safety of your people. The program can also enable longer equipment life, leading to maintenance savings.

3D TRASAR technology helps:

DETECT SYSTEM STRESSES that can damage your cooling water equipment and inhibit your system such as corrosion, scaling and fouling.

DETERMINE AND EXECUTE PROPER RESPONSE so that chemistry is automatically fed at the precise amount needed. You don't waste money on overfeeding or risk your system with underfeeding.

DELIVER POWERFUL RESULTS including significant water and energy savings, reduced operational costs and a smaller environmental footprint.



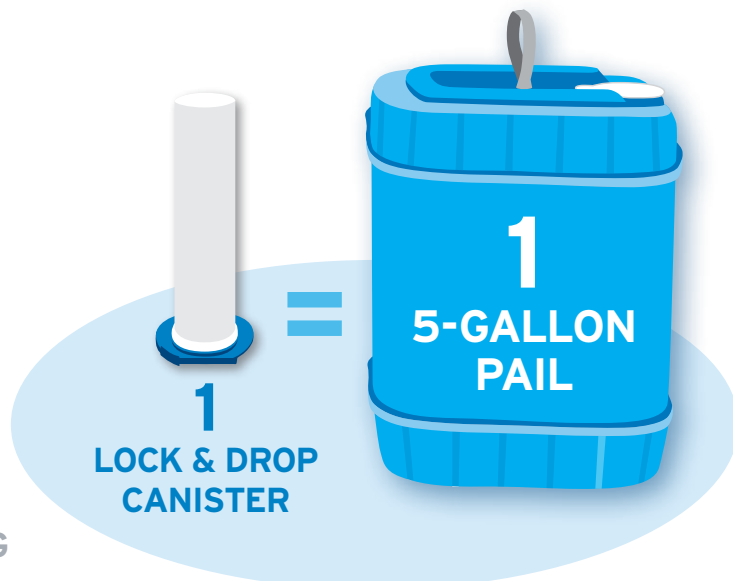
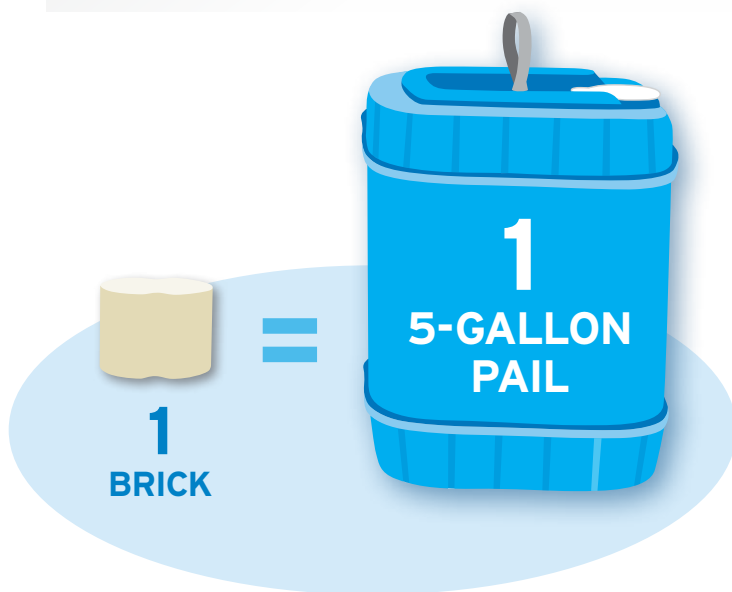
Safe, Simple Delivery

BEFORE



3D TRASAR solid chemistry is packaged as dry bricks and canisters – eliminating the need to haul heavy pails or measure and handle liquid chemistries. Filling the dispenser is as simple as taking a conveniently shaped brick and placing it in. Biocide feeding is no-touch and easy with the Lock & Drop system – insert the canister, turn to lock and slide to drop the feed. The biocide canisters are color coded and cannot be substituted for each other, thereby preventing accidents. No transporting, handling or complicated training required.

NOW



NO HAULING, HANDLING OR MEASURING

Sustainable Results

For an average cooling tower system size of 15,000 gallons, annual savings include:

44% reduction in floor space of storage required for annualized product inventory

41% reduction in packaging material (88 pounds, or 34 pails, reduced per year)

3D TRASAR technology delivers real savings for Midwest hotel

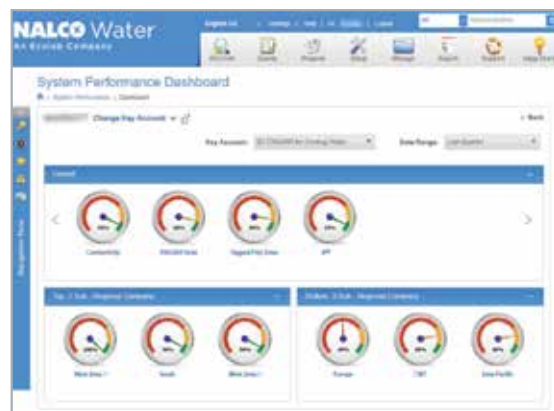
Assumptions:

- Using 316-room Midwest hotel example
- Annual current program cost is \$8,000 with 5-gallon liquid pails
- Utility water usage is 1,500 gallons at \$7/1K gallons
- Utility energy cost is \$1,500K
- Value of asset is \$650K; increases useful life by 20 years

Program Savings	Typical Savings	Amount
 Water	@15%	\$1,575
 Energy	@1%	\$15,000
 Asset Management	@2 mpy	\$10,400
Total Savings		\$26,975
Incremental Cost of Program		\$2,000
TOTAL ANNUAL SAVINGS		\$24,975
 Annual CO ₂ Reduction		38 tons

Real-time measurement and reporting

3D TRASAR automation technology gives you an easy-to-use systems management dashboard. A single view of all enterprise-wide systems allows you to efficiently optimize your operations and maximize performance. The automation program monitors the operational details of your cooling water system 24/7, 365 days a year. If there is a problem, the technology not only responds automatically but will also send you and your service representatives alarms via multiple channels, including your smartphone.



Total Care Services

With Total Care Services, you enjoy peace of mind and optimized performance. The program details will be handled by our highly trained, certified technicians including the site survey, installation, commissioning on-site training and ongoing maintenance.



Nalco Water, an Ecolab Company

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