



Cleaner surfaces.
Higher efficiency.
Less downtime.

Maximize Evaporator Performance with Apex EFX™

OVERVIEW

Evaporator performance is critical to ethanol plant efficiency, directly impacting throughput and energy balance. As fouling builds on heat transfer surfaces, evaporation rates decline—driving higher steam demand and downstream challenges.

Traditional approaches rely on reactive cleaning, often leading to inconsistent performance and unnecessary downtime.

Apex EFX™ is a flexible evaporator performance program that applies targeted chemistries to maintain efficiency, extend run time, and reduce operational disruption.

THE APEX SOLUTION

Apex EFX™ combines online deposit control, offline cleaning, and performance monitoring to optimize evaporator operation under real-world conditions.

- **Single precursor system**—eliminates multiple chemical handling
- **Improved safety** requiring no acid handling
- **Consistent ClO₂ production** on demand
- **Lower operating cost** through simplified chemistry makeup

Flexible Evaporator Performance Control

WHY APEX?

Apex delivers more than chemistry—we provide a complete evaporator performance strategy tailored to your operation.

By combining application expertise, system monitoring, and ongoing optimization, Apex helps maintain efficiency, reduce downtime, and improve overall plant performance.

OPERATIONAL IMPACT

Improved Efficiency. Reduced Downtime. Greater Control.

Apex EFX™ helps plants maintain cleaner evaporators and more stable operation—resulting in measurable performance gains.

- **Increase heat transfer** efficiency and throughput
- **Reduce** cleaning frequency and downtime
- **Lower** total treatment and operating costs
- **Extend** equipment life and system reliability

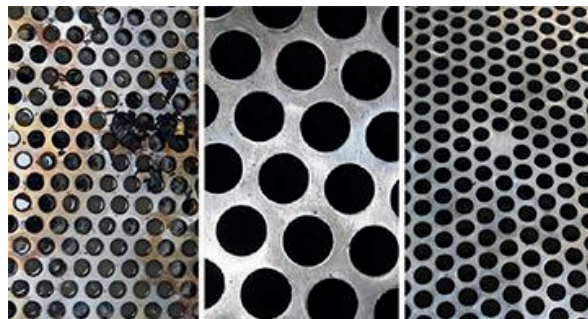
REAL-WORLD RESULTS

Facilities implementing Apex EFX™ programs have achieved up to 50% reduction in chemical usage, along with improved system uptime and more stable evaporator performance. Plants also report safer handling, easier cleaning, and reduced fouling—resulting in increased throughput and long-term operational reliability.

PROVEN PERFORMANCE

Apex InsituChem™ generates chlorine dioxide on-site using a single precursor—sodium chlorite—and electrical energy. This electrochemical process eliminates the need for multiple chemicals, reducing safety risks while producing consistent, on-demand ClO₂ for reliable system performance.

W/O EFX™



WITH EFX™ SOLUTION

SIMPLIFY YOUR ClO₂ PROGRAM

Connect with Apex to evaluate your system & start a custom EFX™ program.

Scan the QR code to learn more about our biofuels offerings.

