ELECTROCELL SYSTEMS

3 Patented Technologies Working Together

Industry-changing technology for cooling tower/chiller/boiler energy enhancement

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Strategic Partner: I·E·S·G Integrity Energy Solutions Group

ELECTROCELL SYSTEMS

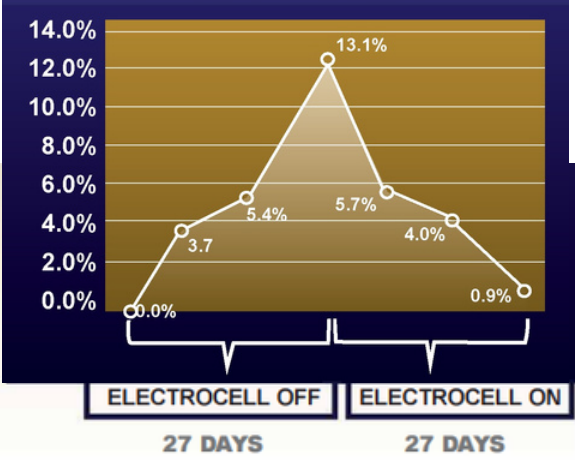
Particle Precipitator ... Not A Filter

ElectroCell Systems provides customers with their most reliable partner in our people, systems, and in ongoing technical support. Our mission is to enhance Cooling Tower, Chiller, Boiler operation by reducing your energy and water consumption. ElectroCell Systems has been perfected by nearly two decades of R&D and validated by hundreds of field installations. Our success is built on more than 40 years experience as an energy management, building automation, and control system contractor with a focus on ElectroCell Systems since 1997.

Improving Profit Margins for Facility Management

Fully Automated skid mounted, side-stream particle precipitator designed to enhance the overall operation of HVAC – Chillers/ Cooling Towers and Boilers resulting in multiple benefits for the Facility Management Team; reduced risk of Legionella and Bacteria concerns, reduction of cost in maintenance, service and repair expense.

"ElectroCell Systems Improved Heat Transfer Efficiency"
Chiller's kW/Ton % Over Baseline



- **Reduce** up to 98-99% of suspended solids
- **Save** on the cost of **repair and service** and **decrease** the need for routine **maintenance**
- **Decrease** risk of **bacteria**, including **Legionella**
- **Achieve ROI in as little as 2 years**
- **Reduce water** use by **20-30%**
- **Increase** thermo **transfer**
- **Reduce** chiller **energy** use by **12-15%**
- **Enhance** chemical **effectiveness**
- **Improve** environmental **impact**

removes suspended particles, reducing risk of bacteria

Our Product:

continuous micro cleaning process with low maintenance needs and fully automated BAC Net Processor. The development of our innovative system reduces evaporation rates, saving up to 30% of make-up water. ElectroCell removes Total Suspended Solids (TSS) and controls Total Dissolved Solids (TDS) in medium to large HVAC and Process cooling systems.

Cleaner is Greener!

CASE STUDY:

99.702% Reduction of suspended particles down to one micron

BEFORE ELECTROCELL SYSTEMS

water appears clear

Sediment collected from seemingly clear water shown in photo to the left.

AFTER ONE DAY OPERATION

Concentration collected in static mixture

Total 24 Month Savings = $203,245

WATER SAVED	4,710,571 Gallons	$ 56,527
ENERGY SAVED	1,833,973 KWH	$146,718

The Industries We Serve

- Manufacturing Facilities
- Public Buildings
- Office Buildings
- Data Centers
- Pharmaceutical Plants
- Health Care
- Education
- CoGen Plants
- Hospitality
- High Rise Residential Condos
- State & Federal Government
- Casinos & Convention Centers

Advantages and Benefits

This truly innovative, patented side-stream (particle precipitator) increases efficiency of HVAC water systems in commercial, industrial and institutional facilities. It addresses open and closed loop chiller/cooling tower applications and boilers. A simple and efficient installation saves time and expenses.

ElectroCell Systems enhances your existing chemical program, epecially the halogens that are associated with controlling bacteria growth, including Legionella.

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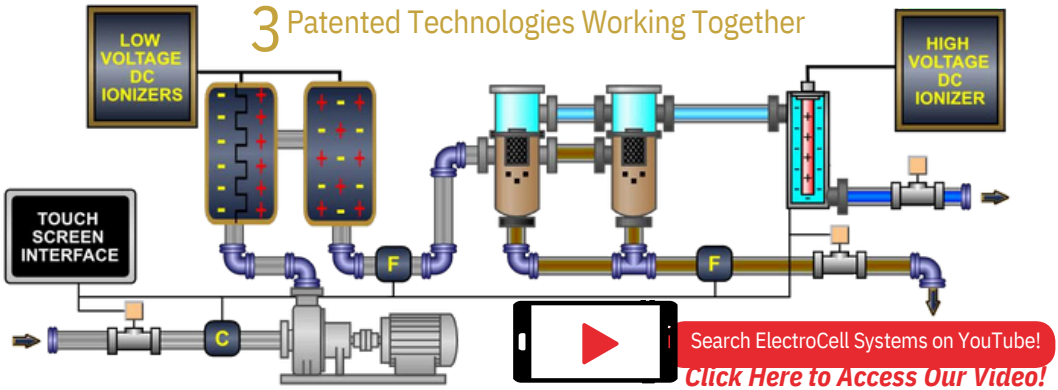

Energy Savings
Increasing thermo transfer and average energy savings of 12-15%

Better Payback
Validated ROI of 24-30 months, plus continuous year-after-year savings

Simple Installation
Simple installation with minimal down time– typically less than 2 business days

Water Savings
Reduce make-up water by 20-30% by increasing equipment rates rather than extending bleed cycles

Enhances Chemicals
Optimize chemical performance by removing 95% of suspended solids down to one micron and controlling total dissolved solids throughout the system

Maintenance Savings
A clean system will reduce much of the equipment maintenance and extend equipment life cycles

chiller and boiler problems. With an average ROI in two years or less, ElectroCell will pay for itself in savings many times over. Contact us today for your complimentary site survey, and see the tremendous impact that ElectroCell can have in your water and energy savings.

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