



NORTH AMERICAN  EXCLUSIVE PARTNER
NATURALLY TREATING WATER

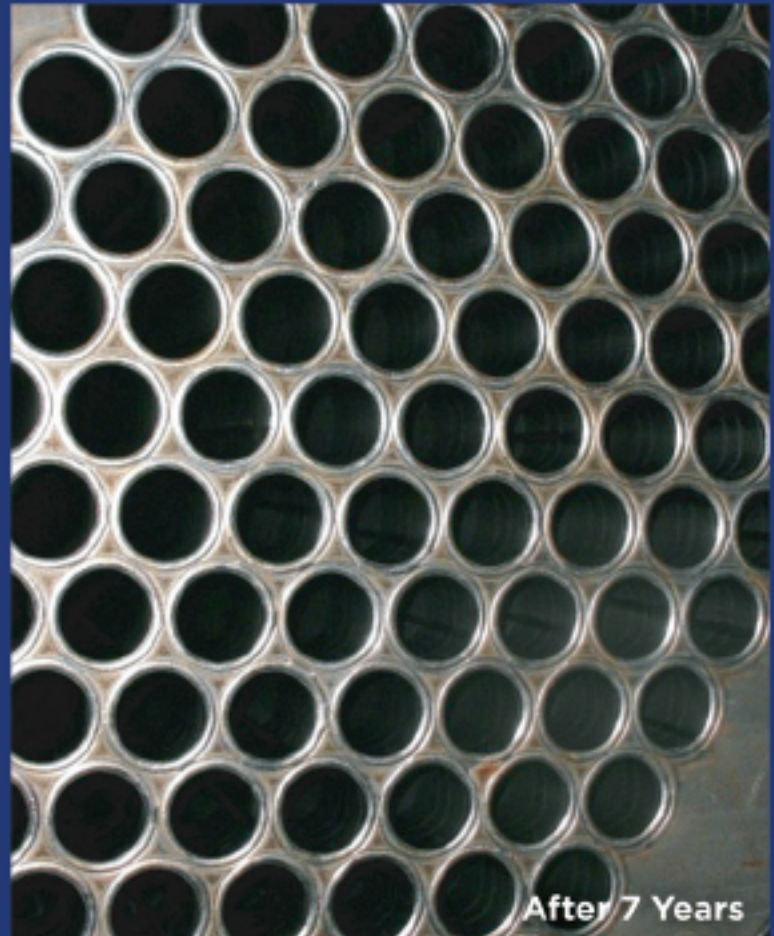


Innovative Commercial & Industrial Water Process Treatment

OVER 5,000 INSTALLATIONS WORLDWIDE



After 5 Months



After 7 Years

PROVEN RESULTS

Military aerospace facility in California, installed in 2017.

The facility struggled to manage their bio-contamination load and had significant scaling which frequently fouled their tower and chiller surfaces. After installing UET, the blowdown setpoint was increased from 2,500 to 6,500 $\mu\text{S}/\text{cm}$ which saves the facility 30% of their blowdown water (increasing cycles from 2.5 to 10 cycles). The chiller was not cleaned prior to UET installation. After 5 months of treatment, bio-growth and scaling under control (see above photo). The client requested installations in all towers at this facility.

Makeup Water:
Conductivity 670 $\mu\text{S}/\text{cm}$
Calcium Hardness 230 ppm

DynamicWater.com

Siemens powerplant in partnership with government entity in Soleval, Spain. System has been active since 2010.

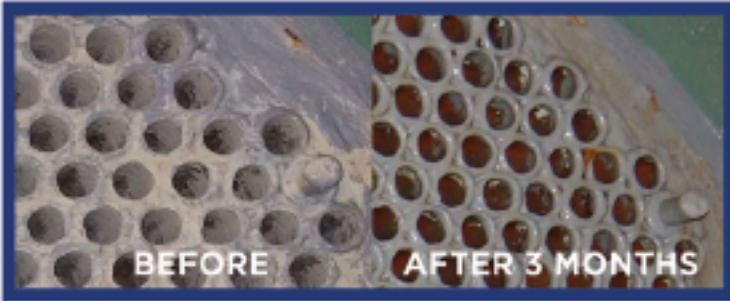
Instead of 2-2.5 cycles, the plant runs at 6 cycles of concentration with reclaimed agricultural water. Client estimates over 65,000,000 gallons of water saved annually. In 2015, the client removed 1.8 tons of scale through UET reactors.

Makeup Water:
Conductivity 1,100 $\mu\text{S}/\text{cm}$
Calcium Hardness 135 ppm

UET.co.il

WHAT IF YOU COULD DRAMATICALLY...

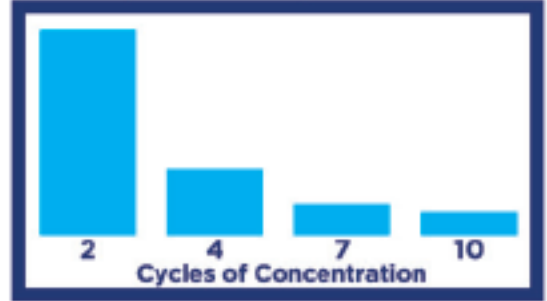
REDUCE SCALE



DECREASE ANNUAL MAINTENANCE COSTS & TIME



REDUCE WATER USE (10-40%)



REDUCE CORROSION



REDUCE SAFETY CONCERNS BY ELIMINATING HAZARDOUS CHEMICALS



TREAT BIOLOGICS BY ELECTRO-CHEMICAL PROCESS



EXTEND THE USEFUL LIFE OF YOUR EQUIPMENT

WE WORK WITH NATURE RATHER THAN AGAINST IT.

1 The three most important factors to manage in process water are:

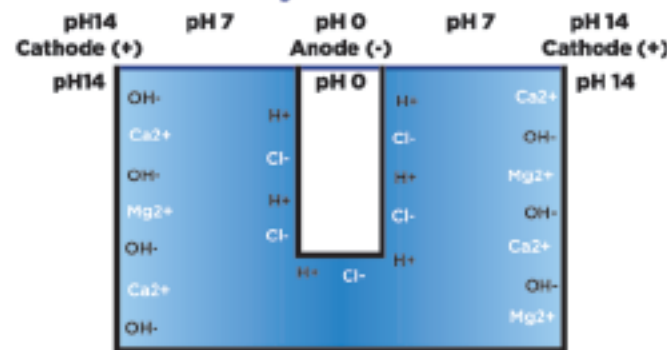
- Scale
- Corrosion
- Bio-Contamination

2 The Dynamic Water UET reactors remove the unstable minerals in water to allow for high cycle rates with reduced scale formations in your towers or heat exchangers. This increases efficiency and extends equipment life.

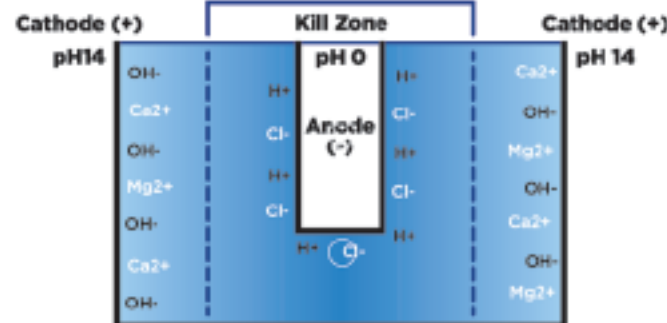
3 The UET process operates at a high pH (8.5-9.0) which protects your equipment against corrosion. Using partial electrolysis, the reactors generate biocides from the natural chlorides in the water providing superior biocide protection against legionella and other bio-contaminants as 70% of the water passes thru a pH of under 7 each time through the reactors.



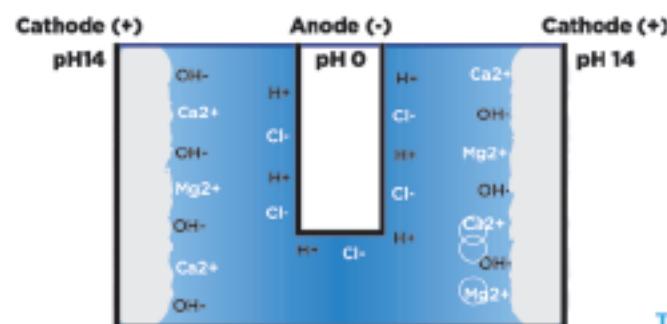
Electrolysis in Reactor



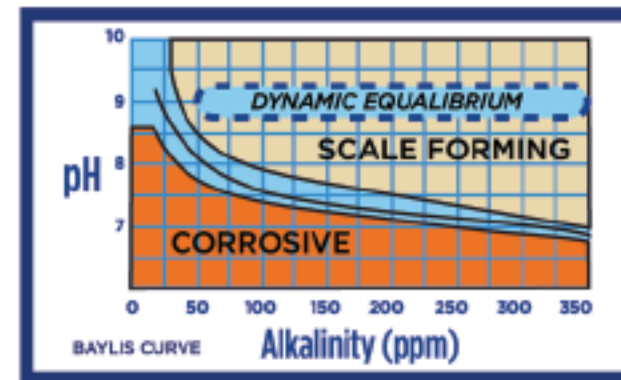
Aggregation of Ions



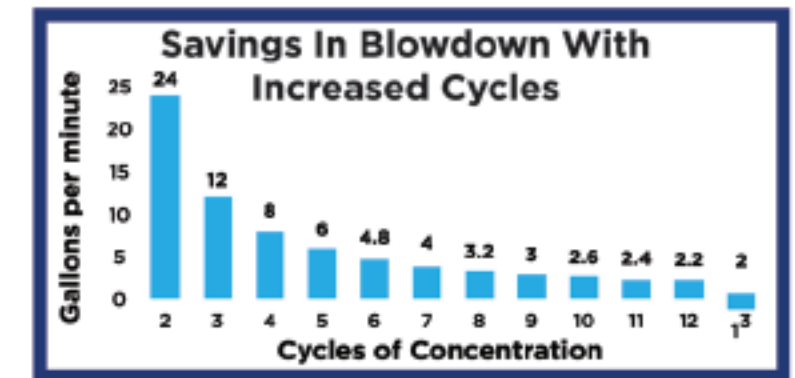
Scale Forms and Chlorine is Activated



4 The resultant water is what we call "Dynamic Equilibrium" - a scale forming composition of water without the ability to scale. Due to a pH of 9, the water is not corrosive (see Baylis Curve below).



5 Our patented technology allows us to increase cycles dramatically, saving you water.



6 WITH REMOVAL OF SCALE, YOUR TOWER BECOMES MORE EFFICIENT, SAVING YOU ENERGY

Equipment	KW/Ton	Load Factor	Operating Hours	Energy Cost per kWh	Cost with Scale	Cost without Scale	Savings
500 tons	0.65	100%	250 Days or 6000 Hours	\$0.08	\$198,120.00	\$156,000.00	\$42,120.00

1/32" OF SCALE IN YOUR CHILLER CAN COST YOU APPROXIMATELY 27% OF YOUR ENERGY COSTS

Improves mechanical system performance

Source: CEDengineering.com Course M05-013

7 Our monitoring controller, equipped with correlators, gives conductivity, ORP, pH, and corrosion rates in real-time. Alerting both our companies of out of parameter conditions.



OPTIMIZING COOLING TOWER EFFICIENCIES IN ALL INDUSTRIES



Pharmaceuticals
& High Tech Manufacturing



Dairy & Other
Food Production



High Rise Offices
& Condominiums



Refineries



Data Centers



Mining



Resorts & Casinos



Hospitals



Power Plants

ALSO REPRESENTING



Powell Water Systems Inc.

Cleaning water through electro-coagulation for removal of oils, fats, arsenic, lead, mercury, colloidal clays, bacteria, viruses, and more, without the use of chemicals.



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