Dynamic Water Technologies, LLC

NORTH AMERICAN UET EXCLUSIVE PARTNER
NATURALLY TREATING WATER

PROVEN TECHNOLOGY SINCE 1992

Innovative Commercial & Industrial Water Process Treatment

DynamicWater.com UET.co.il
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 μS/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 μS/cm
Calcium Hardness 230 ppm

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 μS/cm
Calcium Hardness 135 ppm
WHAT IF YOU COULD DRAMATICALLY...

REDUCE SCALE

BEFORE

AFTER 3 MONTHS

BEFORE

AFTER 4 MONTHS

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

DynamicWater.com
The three most important factors to manage in process water are:
- Scale
- Corrosion
- Bio-Contamination

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.

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

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).

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

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

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

Implements mechanical system performance

Source: CEDengineering.com Course MOS-013

THE UET REACTOR SYSTEM DOES ALL OF THE ABOVE WITHOUT ANY ADDING CHEMICALS. OUR ELECTROCHEMICAL PROCESS GENERATES EVERYTHING WE NEED FROM NATURE.
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.

DYNAMIC WATER TECHNOLOGIES, LLC

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