

ENERGEO™

INDUSTRY | IoT

ELECTRO-CHEMICAL TREATMENT SYSTEM (ECTS)™

Revolutionizing Cooling Tower Treatment by providing a Non-Chemical, Comprehensive, Effective Treatment against Scaling, Corrosion & Bio-Fouling.

WE UNDERSTAND YOUR WORLD

Typical reasons for inefficiencies in Cooling Towers (CT):



- Different water quality and different water source.
- Maintaining the water quality as per OEM recommendation.
- Maintaining the COC and loss of water due to blowdown requirements.
- Reduced CT Effectiveness & increased chiller power consumption due to choking of fills leading to higher leaving temperatures from the CT.
- Higher Cost of maintenance and shutdown leading to production loss.
- Recurring cost of chemicals and skilled manpower for water treatment.
- Scaling, Corrosion and Bio-Fouling preventive solutions required.

WORKING PRINCIPLE



The ECTS system works in side stream without disturbing Cooling Tower Operations. The system deploys an electrolysis reaction with controlled constant DC current which creates Electrolysis Reaction generating (-OH) Ions at Cathode which creates high PH on the walls of cathode, this results in precipitation of calcium & magnesium salts present in the water into the electrolytic reactor and Chlorine gas is generated at anode which acts like Biocide and avoids bacterial growth and algae formation. The system is equipped with Automatic Self Cleaning Mechanism & Automatic Blowdown Control.

STANDARD FEATURES

- Fully Automatic System.
- Effective Treatment against Scaling, Corrosion and Bio-Fouling.
- Automatic Self Cleaning Mechanism.
- Automatic Blowdown Control.
- 7" Touch Screen with graphical display.
- No Plant Shutdowns Required.
- iNTELLIGENT CONTROLLER (Optional) : This smart device will communicate to our cloud server and push the relevant data of the key parameters available real time with most accuracy. This device is IoT Ready and Industry 4.0 Compliant.





CERTIFICATES

CERTIFIED ISO 14001:2015 COMPANY

CERTIFIED ISO 9001:2015 COMPANY

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CE

RoHS COMPLIANT

ADVANTAGES

- Saves upto 70% blowdown water
- Zero chemical required
- Automatic self cleaning mechanism
- Automatic blowdown control
- Reduction in STP treatment cost
- Reduction in operational cost
- Reduction in maintenance cost
- Enhancing cooling tower effectiveness
- Increasing 2-3 times COC
- Environment friendly technology
- ROI less than 2 years

SUPPORTED INDUSTRIAL UNITS

- Commercial Complex
- Hotels
- Airports
- Hospitals
- Business Centres
- And More...

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