

ENERGY & COST SAVINGS

ENSURING YOUR LONG-TERM PEACE OF MIND.

VALUE ADDED SERVICES

CHILLER CONDENSER CLEANING SYSTEM

Chemical Free Water Treatment for Cooling Towers

ABOUT DAIKIN APPLIED ASIA & OCEANIA

Engineered for Performance and Flexibility

- Daikin Group is global leaders in the Air Conditioning sector.
- 96,000 employees globally.
- Over 100 Production manufacturing sites across the world.
- Providing technological solutions in more than 170 countries in the world.
- Daikin Applied Asia & Oceania is a subsidiaries under Daikin Industries Ltd Group (“Daikin”) of companies.



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DAIKIN APPLIED VALUE ADDED SERVICES

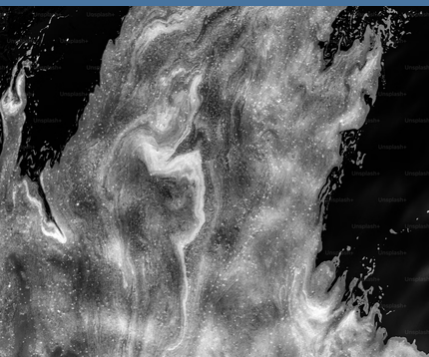


Importance of Cooling Towers

Cooling towers are essential for cooling and maintaining the temperature of the HVAC systems. However, the water used in cooling towers can contain impurities and bacteria that can be harmful to the environment and the equipment. As a result, cooling tower water treatment is necessary to maintain the performance and efficiency.



Conventional Chemical Water Treatment



Toxic for the environment



Negative impacts on wildlife, plant life, and water sources

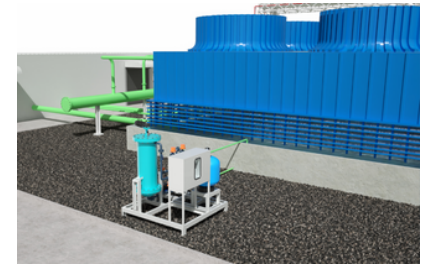
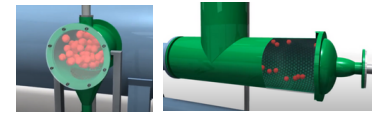


Hazardous for human health

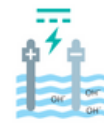
Chemical Free Water Treatment

Daikin Condenser Water Cleaning System

Eliminates chemical dosing in the cooling tower as scales are removed physically into an electrolytic reactor, allowing cooling towers to operate at higher levels of TDS or conductivity, resulting in reduction of cooling tower blowdown water consumption.



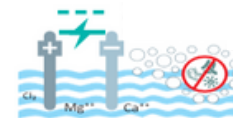
How It Works



Water from the cooling tower sump is pumped through the Electrolytic Reactor where electrolysis takes place. DC current is passed through Anode and Cathode.



At cathode OH- ions are generated, which creates a high pH environment at the walls of cathode.



This causes precipitation of calcium, magnesium and other dissolved salts that are present in the water and are deposited into the electrolytic reactor. Chlorine gas along with other oxidants are generated at anode, which act as disinfectants that reduce bacterial growth and algae formation at the cooling tower.

Benefits

- Zero chemicals used
- Reduces up to 80% blow down water usage
- Reduces corrosion in condenser pipes
- Extends life of the Cooling Tower
- Fully automatic system with self-cleaning mechanism
- Media filter with auto back-wash arrangement
- No plant shutdown for system installation

