

How do you treat a cooling tower without chemicals?

EVAPCO's *Pulse~Pure*® system utilizes *pulsed-power technology* to control scale, corrosion and microbiological growth. Since the system does not use chemicals, there are no harmful byproducts. *Pulse~Pure*® is an easy, safe and sustainable solution.

How does *Pulse~Pure*® work?

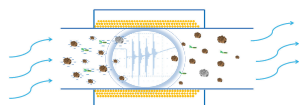
Recirculated water from the cooling system passes through a chamber where it is exposed to high-frequency pulsed electric fields.

Benefits:

- Can Eliminate Treatment Chemicals
- Factory Installed Options on Coolers and Condensers (available retrofit)
- Low Energy Consumption
- Routine Monitoring by Water Treatment Partner
- Manufactured and Warranted by EVAPCO
- LEED Points
- Compact Design

Recirculating water flows through the *Pulse~Pure*® chamber where pulsed, electric fields physically treat the water to control Scale, Corrosion and Microbiological activity.

PULSE~PURE® TACKLES:



Scale

Four low frequency coils control the formation of mineral scale (calcium carbonate) by creating "seed crystals" from suspended particles in the circulating cooling water. These seed crystals become the preferred nucleation sites for calcium carbonate, not heat transfer surfaces. This process forms a non-adherent powder in the water which will settle out in the basin and be removed by blowdown.

Corrosion

Operating in an alkaline environment allows calcium carbonate to act as a natural cathodic corrosion inhibitor. Corrosion potential is further reduced by the elimination of oxidizing biocides or acids which, if overfed, will lead to accelerated corrosion.

Microbiological Growth

The pulsed electric fields control bacteria growth by electroporation and agglomeration. The two high frequency coils cause electroporation to the bacteria cell walls. The damaged bacteria devote energies to repair in lieu of reproduction resulting in extremely low bacteria counts.

If you would like to evaluate your options for treating your cooling water, reach out to Watertech at 414-425-3339 or info@watertechusa.com.

