

DISINFECTION PROCEDURE

Evaporative Cooling Systems

Disinfection helps to eliminate microbial contamination in cooling towers, fluid coolers and evaporative condensers, and is regarded as an industry best practice. A disinfection should be completed:

- When commissioning a new evaporative system
- Before and after shut down periods greater than 4 weeks
- Twice per year in the spring and fall, as recommended industry best practices



- When test results indicate the presence of high levels of Legionella bacteria (please consult AquaAnalytics Legionella Testing Action Plan)
- As required if inspection has indicated the presence of biofilm or accumulation of particulate
- When Legionnaires' disease is known or suspected (please consult your representative)

The following procedure is based on *Legionella* 2003: "An Update and Statement by the Association of Water Technologies".

- 1. Shut off cooling tower fans.
- 2. Keep makeup water valves open and the circulation pumps operating.
- 3. Close outdoor air intake vents located within 30 meters of the cooling tower.
- 4. Use the DK-12000 Disinfection Kit as instructed on product packaging to achieve an initial free residual chlorine (FRC) level of ≥50ppm. Consult your Water Treatment Representative for further details.
- 5. Maintain a minimum of 10 ppm FRC for 24 hours.
- 6. Drain and refill the system. Repeat steps 4 to 5 at least once to remove all visible algae-like film.
- 7. Using a brush and water hose, thoroughly clean all water-contact areas, including the basin, sump, fill, spray nozzles, and fittings.
- 8. Circulate 10 ppm FRC for one hour, and then flush the system until free of all sediment.
- 9. Refill the system with clean water and return to service, establishing normal water quality parameters.



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