

Legionella On-line Disinfection Checklist for Cooling Towers

(ASHRAE Guideline 12-Based; section 8.2.9.2 On-Line Disinfection)

This tool may be used as part of the system start-up protocol or a routine system maintenance and operation schedule as called for in the water management program. The decision to use on-line disinfection may also be determined by microbial test results.

	Review	Water	Management	Plan	(WMP)
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Confirm that online disinfection is appropriate for current conditions.

Ensure Proper PPE

Respirators (N95 or higher), gloves, goggles, and protective clothing for personnel.

⋄ 2. System Assessment

Inspect Cooling Tower for Visible Contamination

Ensure no heavy biofilm, debris, or slime on the fill pack or drift eliminators. *If present, switch to offline disinfection.*

□ Verify System is in Normal Operation

Fans, pumps, and chemical feed systems should be functioning.

⋄ 3. Disinfection Procedure

□ Circulate Water Continuously

- Ensure disinfectants reach all parts of the system including bypass or standby components.
- Add oxidizing biocide sufficient to achieve a biocide residual of at least
 - 5ppm free available oxidant, maintain that level for a minimum of 5 hours
- Retest according to your waste management program