

# FLOWMARK

## COOLING TOWER AOP WATER TREATMENT

EPA Est.#: 92852-FL-1

### FLOWMARK MODEL DS-1

Treats Towers Up To 300 Tons



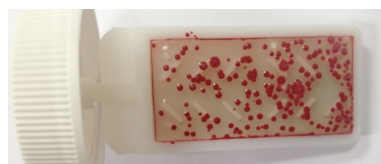
Replaceable Lamp Life = 1 Year (9,000 hrs.)

#### **FlowMark Technology Overview**

The FlowMark Water Treatment Disinfection System is classified as an *Advanced Oxidation Process*. Oxygen is split into singlet oxygen atoms as it passes through a lamp chamber containing a specific wavelength UV lamp. The oxidizing gas is introduced to the cooling tower water via a Diffuser stone placed in the tower basin. The singlet oxygen atoms interact with water molecules forming hydroxyl and oxygen radicals which trigger various chemical reactions, oxidizing contaminants including minerals and bacteria. In addition, some oxygen radicals join with water molecules (H<sub>2</sub>O) to form a measureable residual of Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>), a trusted long lasting, nontoxic biocide.

### Advanced Oxidation Process

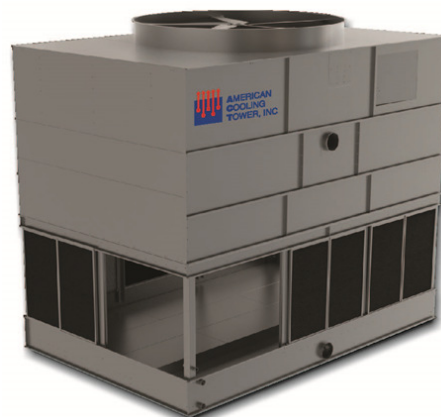
- Produces Highly Reactive Hydroxyl Radicals
- Low ozone (O<sub>3</sub>) production (<0.5 PPM)
- Creates Measureable Hydrogen Peroxide
- Controls Bacteria
- No Plumbing to Install



Before FlowMark Bacteria Count = 100,000 CFU/ml



2 Weeks After FlowMark Bacteria Count = 500 CFU/ml



FlowMark Water Treatment

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