

# FLOWMARK

## COOLING TOWER AOP WATER TREATMENT

EPA Est.#: 92852-FL-1

### FLOWMARK MODEL DS-PI-4

#### High Output UV Advanced Oxidation

### Advanced Oxidation Process

- Produces Highly Reactive Hydroxyl Radicals
- Low ozone (O3) production (<0.5 PPM)
- Creates Measureable Hydrogen Peroxide
- Controls Bacteria
- Installs in dedicated 1" supply line
- No air pump required
- No diffusers required



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



Before FlowMark Bacteria Count = 200,000 CFU/ml



3 Weeks After FlowMark Bacteria Count = <100 CFU/ml

#### **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 Venturi injection into the conductivity control loop. 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.



FlowMark Water Treatment

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