Peroxide UltraPure™
Onsite Generation

Eliminate trace organic contaminants in your water, safely and effectively with GOgen®. A fully autonomous, safe and chemical-input free Advanced Oxidation Process (AOP) for **cooling towers**, **data centers** and **process water**.

Autonomous **Safe** **Sustainable**

Chemical-input Free AOP

Water safety is increasingly threatened by trace organic contaminants originating from pharmaceutical, cosmetics, oil and gas, and chemical industries. These Trace Organic Compounds (TrOC) are becoming the subject of rising public concern and tightening regulations.

The activation of hydrogen peroxide by UV creates highly potent hydroxyl radicals which break down these resilient organic compounds. This process is termed Advanced Oxidation Process (AOP). GOgen® enables for the first time fully-autonomous, safe, chemical-input free AOP, by producing UltraPure™ hydrogen peroxide directly at the point of use. GOgen® for AOP reduces chemical consumable costs, improves occupational safety, and reduces chemical storage, handling, and permitting costs, as well as dependence on 3rd party chemical supply chains.

Inputs

GOgen®

It starts with water, It ends with water

Output and Line Feed

Peroxide UltraPure™ Reservoir

Dosing Pump to UV reactor

GOgen® by HPNow eliminates bulk H_2O_2 challenges, concerns, and related costs, by autonomously generating safe, ultra-high purity, low-concentration H_2O_2 directly on site. GOgen® inputs are only water and electricity. Output Peroxide UltraPure™ solution is generated at a safe concentration of up to 1% and temporarily stored in a buffer tank, from which it is dosed into the UV chamber. The buffer tank is automatically refilled based on actual demand. HPNow further provides a remote GOgen® system monitoring service to ensure a smooth and fully controllable operation without the need for onsite presence.

- No recurring chemical costs
- Low running costs – highly energy efficient
- Requires only water and electricity inputs
- Safe to use, no handling of toxic chemicals
- Eco-friendly, no Disinfection By-Products (DBPs)
- Autonomous operation – no supply chain dependence
- Easy to operate and maintain
- No stabilizers or other additives

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WANT TO LEARN MORE?

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