

# How It Works

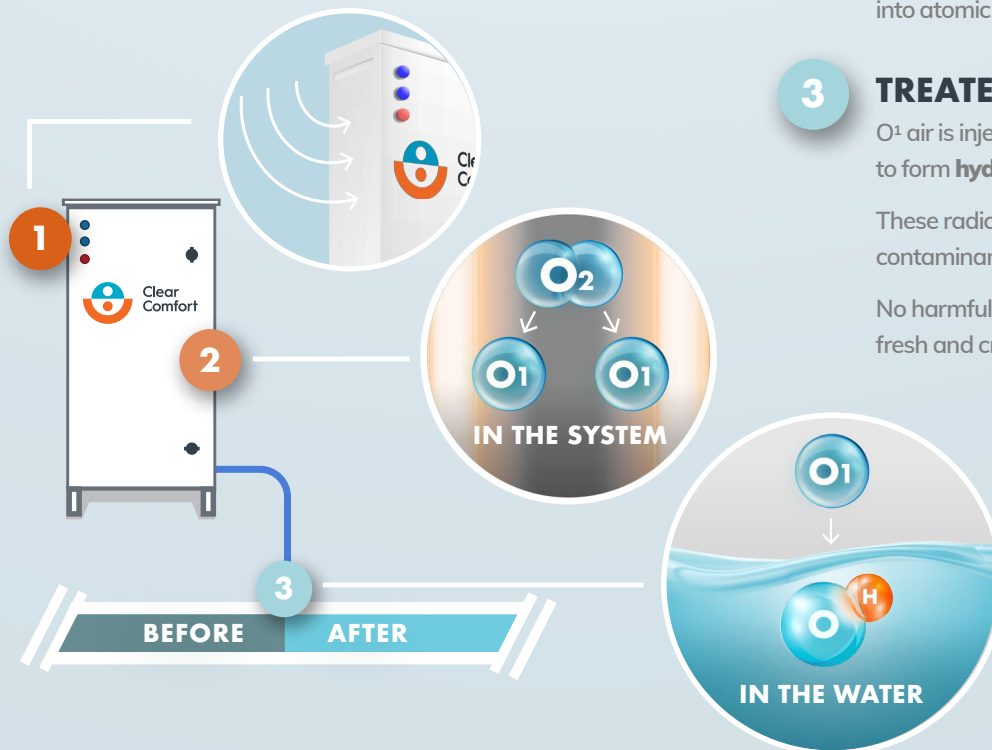


## Hydroxyl-Based AOP Water Treatment Systems

*Patented Technology Only From Clear Comfort*

Inspired by nature and backed by science, our patented Hydroxyl-Based AOP (Advanced Oxidation Process) mimics the way our atmosphere cleans air naturally with “hydroxyl radicals” molecules.

By harnessing the power of hydroxyl radicals, our AOP systems offer superior protection with minimal need for chlorine and other traditional toxic chemicals.



### 1 AIR GOES IN THE SYSTEM

The system's vent pulls in oxygen ( $O_2$ ) from ambient air. No water enters the system.

### 2 SYSTEM TREATS AIR

Inside, a patented process splits oxygen ( $O_2$ ) into atomic oxygen ( $O_1$ ) air.

### 3 TREATED AIR MEETS WATER

$O_1$  air is injected into water ( $H_2O$ ) in the pipes to form **hydroxyl radicals** ( $OH\cdot$ ).

These radicals destroy (or “oxidize”) contaminants and vanish in **microseconds**.

No harmful by-products are left behind – just fresh and crystal-clear water at its best.

## MEET THE CLEAR COMFORT AOP SYSTEMS

One Patented AOP Technology, Multiple Industry Solutions



## Where we treat water

Here are some of the industries we serve:



Home Pools and Spas



Aquatic Facilities and Waterparks



Livestock and Poultry Drinking Water



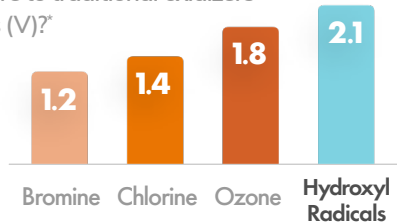
Cooling Towers



Horticulture

## Superior water protection

How do our AOP's hydroxyl radicals compare to traditional oxidizers in volts (V)?\*



# Bathtub to Breakthrough

What started as a bathtub experiment became a revolutionary water treatment discovery. Here's the story behind Clear Comfort's Hydroxyl-Based AOP technology.

## THE PROBLEM

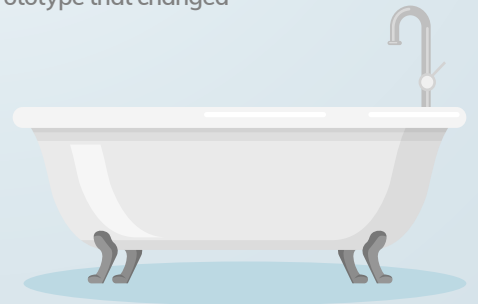
For 30 years, a building engineer struggled with toxic chemicals that left burns on his hands and holes in his clothes.

## THE BREAKTHROUGH

While working at a Denver hospital, he saw the life-or-death impact of toxic chemicals and sought a healthier way – testing solutions in a bathtub. He soon made a prototype that changed water treatment forever.

## THE RESULT

Today, Clear Comfort's AOP continues to treat water better for a healthier, easier and more sustainable future.



# Protecting your water is our mission

Our Hydroxyl-Based AOP harnesses the power of hydroxyl radicals to protect your water from:

- Volatile Organic Compounds (VOCs)
- Bacteria and Viruses  
(E. coli, Legionella, Salmonella, Pseudomonas, Norovirus and more)
- Heavy Metals
- Biofilm
- Chloramines (Combined Chlorine)
- Disinfection By-products (DBPs)  
(Trihalomethanes (THMs), Haloacetic Acids (HAAs) and more)



\*Water purification by electrical discharges. (2001). Plasma Sources Sci. Technol.  
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