



## Flexible, Energy-Efficient Advanced Oxidation for Disinfection and Decontamination

BioLargo's Advanced Oxidation System (AOS) offers high-performance water treatment for the decontamination and disinfection of water and wastewater.

Pairing an iodine-based electrochemical advanced oxidative process with proprietary carbon-based substrates, the AOS delivers the highest performance standards with industry-leading energy efficiency.

Highly effective against bacteria and viruses, the AOS is also well-suited for the decontamination of hard-to-treat organic contaminants such as pharmaceuticals and other micropollutants

The AOS can be configured to deliver optimized performance for most water or wastewater treatment applications.

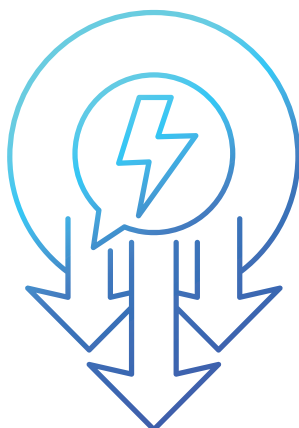


CONTAMINANTS			
Organic Contaminants	Removal	Micropollutants*	Removal
Naphthenic Acids	>95%	Amoxicillin	98%
Phenol	>97%	Carbamazepine	95%
Benzene	53%	Fluoxetine	94%
Benzolalpyrene	**	Ibuprofen	96%
		17-β-estradiol	90%**
Microorganisms			
E. coli, Salmonella enterica	>6logs		
Staphylococcus aureus	>6logs		
Giardia, Cryptosporidium	3logs		
Bacteriophage MS2 (viral surrogate)	>6logs		

\* These represent "hard-to-treat" or recalcitrant contaminants with poor or non-existing solutions in the market

\*\* Physiological/cellular effect of these compounds removed post AOS treatment





## Highest performance, lowest energy consumption

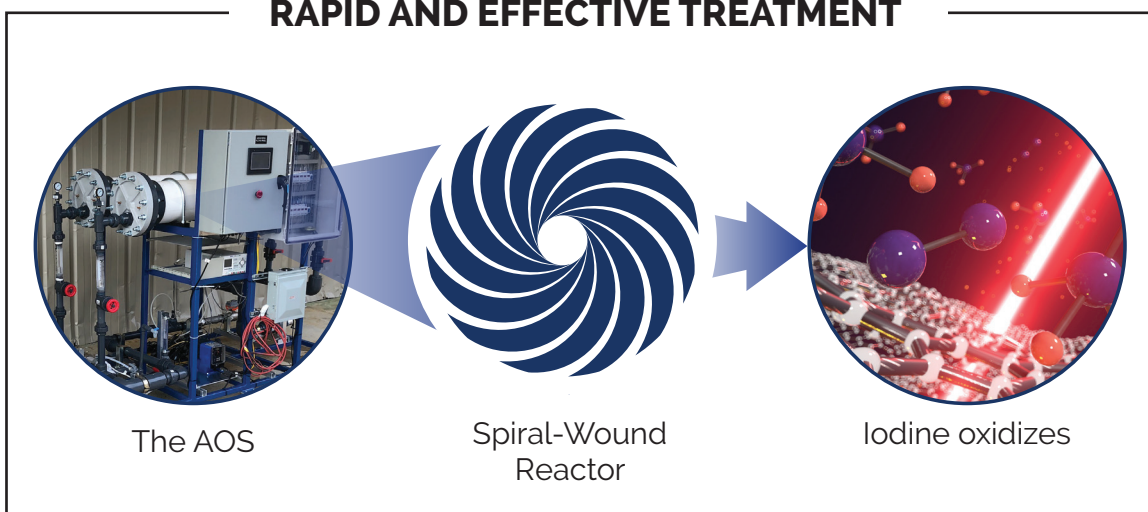
The AOS consumes approximately  
**0.0075 watt hrs**  
per gallon.

### How it works

The AOS utilizes an electrochemical advanced oxidative process (eAOP) that generates iodine and iodine oxides at its high-surface-area anodes. These molecules rapidly react with organisms and organic contaminants providing outsized treatment performance relative to electrical input.

The AOS has been vetted in multiple third-party studies. It has been shown to produce water that is environmentally safe and produces less disinfection by-products than common treatment technologies.

### RAPID AND EFFECTIVE TREATMENT



### Total water treatment solutions

BioLargo offers full service environmental solutions. Our team of experts includes water and wastewater professionals, research scientists and engineers with 30+ years experience, who help ensure you receive the cutting-edge in water treatment. Our team solves the toughest environmental challenges to make your life better.

BioLargo, Inc.  
14921 Chestnut Street  
Westminster, CA 92683

Phone: (888) 400-2863  
Email: [info@biolargo.com](mailto:info@biolargo.com)  
[www.biolargo.com](http://www.biolargo.com)

