

## Odor Control Technology

### Low Energy, In-Situ Hydroxyl Ion Fogger

Effective in Enclosed or Partially-Enclosed Odorous Areas up to 60,000 cubic feet

- No chemicals required
- Eliminates scrubbers or significantly reduces scrubber load
- Minimal startup cost and easy installation

# OHxyPhogg systems have been successfully installed in over 200 applications

The Parkson OHxyPhogg odor control system uses patented air atomizing three-fluid nozzles for incredibly efficient fogging results.

The OHxyPhogg combines ozone, water and air to create a hydroxyl ion fog that is efficiently dispersed throughout confined spaces, such as lift stations, wet wells, holding tanks and headwork areas. This fog creates a chemical reaction that reduces or eliminates H<sub>2</sub>S bacteria and other odorous compounds.

Unlike competitive offerings, the OHxyPhogg does not require the extraction of foul air, but treats the offensive odors in place, thus drastically reducing energy costs.



Ft. Collins, Colorado  
Before: 4" grease



Ft. Collins, Colorado  
After: < 1" grease



## Grease Removal

OHxyPhogg kills biofilm and breaks down grease. While odor control is often the primary area of interest, the hydroxyl ion fog is an effective method of reducing grease in most applications.

## Significant H<sub>2</sub>S removal

OHxyPhogg can serve as a replacement to costly and environmentally unfriendly chemical scrubbers by removing the odors

before they reach the treatment plant.

OHxyPhogg treats air in-situ and is capable of 90% to 100% removal of H<sub>2</sub>S. The technology is customizable to meet varying installation requirements and can be installed indoors or outdoors; four different unit sizes are available and multiple nozzles can be introduced, based on the application requirements and chamber size.

The delivered hydroxyl ion fog results in almost instantaneous odor reduction. Additionally, the system is extremely easy to maintain, with simple cartridge filter replacements and nozzle cleaning.





## Features

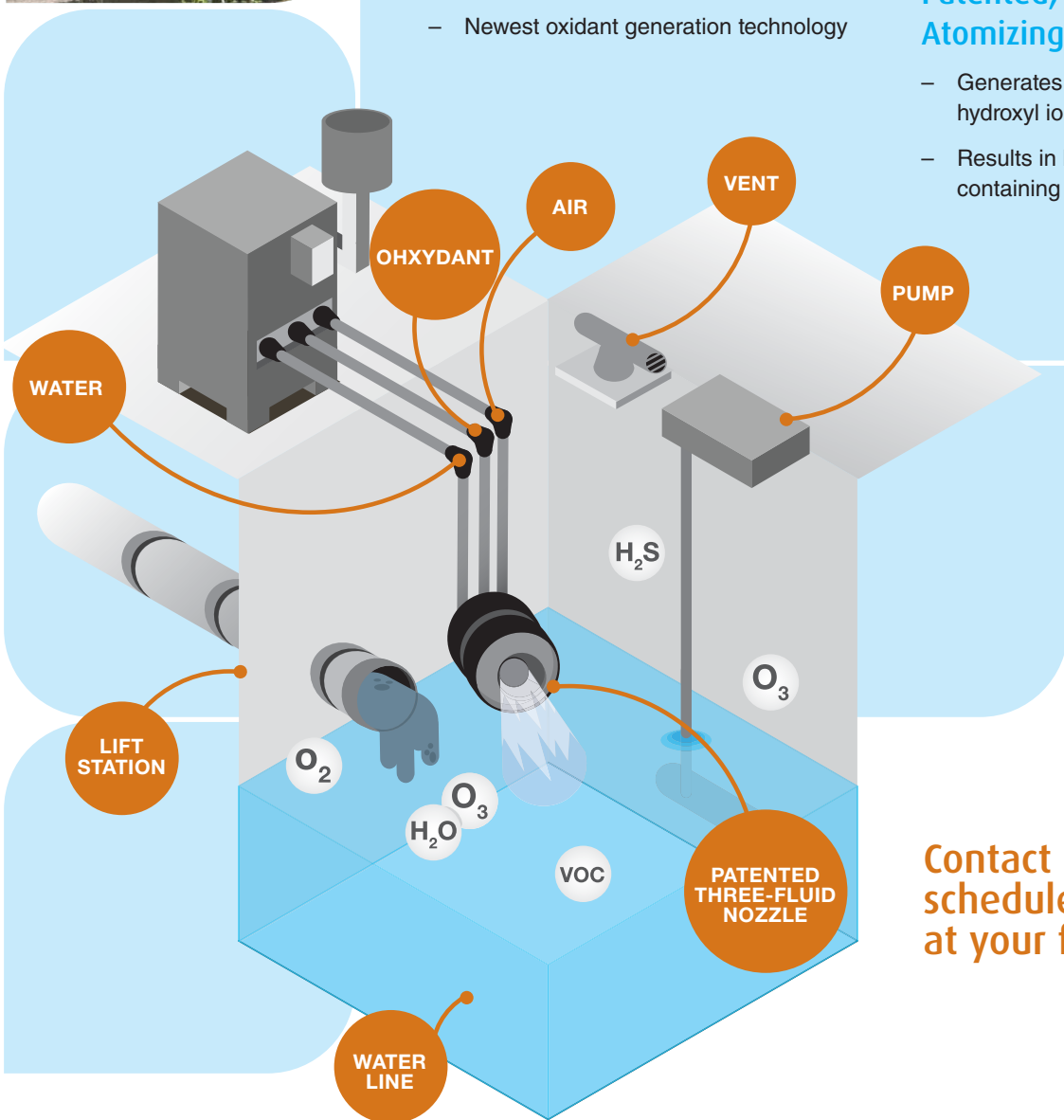
- Easy installation
- Environmentally friendly
- Online and optional offsite fault monitoring
- Startup within hours
- Straight forward maintenance
- Packaged and modular design for easy upgrades
- Numerous safety measures to automatically turn off system, if necessary
- Rapid reaction with odorous gases
- Corrosion-resistant coated aluminum enclosure for indoor or outdoor installation
- Newest oxidant generation technology

## Benefits

- Destroys H<sub>2</sub>S and associated odors
- Eliminates odor complaints
- Reduces H<sub>2</sub>S corrosion in the wet well
- Breaks down most greases
- No chemical storage or handling required for improved safety
- Hydroxyl ions react faster than competitive Cl<sub>2</sub>
- Reacted chemistry condenses safely back into water stream with positive downstream effects
- Extensive degree of built-in safety features with ETL certification

## Patented, Highly Efficient Atomizing Nozzle

- Generates an average five-micron sized hydroxyl ion fog
- Results in highly effective mist containing water, air and oxidant



Contact Parkson to schedule a demonstration at your facility

## OHxyPhogg's Hydroxyl Ion technology is more powerful than most Oxidants, while also maintaining a balanced pH

Oxidant	Oxidation (oxidant potential voltage)	Relative Oxidation (potential power)
Fluorine	3.06	2.25
<b>Hydroxyl radical OH<sup>•</sup></b>	<b>2.80</b>	<b>2.05</b>
Atomic oxygen O	2.42	1.78
Ozone O <sub>3</sub>	2.07	1.52
Hydrogen peroxide H <sub>2</sub> O <sub>2</sub>	1.77	1.30
Permanganate	1.67	1.23
Chlorine dioxide	1.50	1.10
Chlorine gas	1.36	1.00
Oxygen O <sub>2</sub>	1.23	0.90
Hypochlorite	0.94	0.96



## OHxyPhogg offers a very competitive lifecycle cost versus more traditional options

Category	OHxyPhogg	Carbon Scrubber	Biological Scrubber	Chemical Scrubber
Chemical or Carbon Costs	None	High cost of carbon replacement	Medium cost for media replacement	High cost for chemical usage
Capital Cost	Low	High	High	High
Energy Cost	Low	High	High	High
Footprint Size	Low	Medium	Medium	Large

## Specifications

Specifications	V40	V80	V150	V250
Oxidant Output	0 – 0.4lbs/ day	0 – 0.8lbs/ day	0 – 1.5lbs/ day	0 – 2.5lbs/ day
Nozzle H2O Consumption	1 – 6 gph @ ~20 psi	4 – 10 gph @20 psi/ nozzle	4 – 10 gph @20 psi/ nozzle	4 – 10 gph @20 psi/ nozzle
Nozzle Air Output	15 cfm @2 psi	40 cfm @2 psi/ nozzle	40 cfm @2 psi/ nozzle	40 cfm @2 psi/ nozzle
System Dimensions	30"L x 31"W x 38"H	30"L x 31"W x 38"H	30"L x 31"W x 38"H	30"L x 31"W x 38"H
Power Requirements	110VAC, 60Hz, 18 Amp	110VAC, 60Hz, 18 Amp	110VAC, 60Hz, 18 Amp	220VAC, 60Hz, 12 Amp



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