

iscwo

INDUSTRIAL SUPERCRITICAL WATER OXIDATION SYSTEM

The **iSCWO** system destroys hazardous and non-hazardous organic waste, with no harmful substances or emissions discharged to negatively impact the environment.

In a single process, iSCWO breaks down waste into benign water, carbon dioxide, and salts, all of which can be safely released into the environment or reused for other industrial purposes with no post-treatment required.

PROVEN	EPA (Environmental Protection Agency) tested and verified In commercial use since 2012 Demonstrated industrial operation capabilities
EFFECTIVE	99.99% or greater destruction efficiency Destroys waste and co-contaminants simultaneously Tested to destroy 200+
SUSTAINABLE	different waste streams No post-treatment required No high emissions No hazardous by-products to store, transport or dispose of



ROBUST, MATURE SOLUTION

Decades of technology research and development

In-house engineering expertise, aftermarket support, training, and spare parts

System maturity at Technology Readiness Level (TRL) 8 or 9

DEDICATED TEST FACILITY

Full-scale, industrial system

Continuous destruction testing with real-time monitoring – not batch testing

Gas and liquid effluent discharge analysis

Throughput and destruction efficiencies analysis

Analysis reports provided to support permitting process

COST EFFICIENT

Scalable, compact footprint

Easy to install, operate and maintain

Single process solution, no reprocessing required

Significant cost and environmental impact savings for on-site waste destruction compared to incineration

Configurable fixed and transportable iSCWO systems to meet specific site and throughput requirements

No complicated post-treatment pollution abatement system required

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iSCWO destroys hazardous and non-hazardous organic waste at the molecular level. The patented iSCWO reactor operates at high temperature (650°C) and high pressure (4,000 psi) to ensure rapid and complete destruction of organic material. The system is designed to resist corrosion, erosion, and salt buildup to facilitate continuous throughput and reduced maintenance and downtime.

PFAS ISN'T FOREVER ANYMORE

iSCWO destroys PFAS (per- and polyfluoroalkyl substances) and PFAS waste contaminated with other organics from sources including:

- Aqueous Fire Fighting Foam (AFFF)
- Granulated Activated Carbon (GAC)
- Landfill leachate
- Biosolids
- · Wastewater with reverse osmosis as a front end
- · Soils with thermal desorption as a front end
- · Resin beads
- Microplastics

iSCWO TESTED TO DESTROY 200+ DIFFERENT WASTE STREAMS INCLUDING:

- Fire retardant materials
- Expired or obsolete pesticides, fertilizers, fungicides
- · Contaminated wastewater
- Polychlorinated biphenyls (PCBs)
- · Organic cleaning solutions, antifreeze
- · Petroleum, oils, lubricant, petrochemical waste
- · Sewage sludge/animal waste products
- · Pharmaceutical waste
- Plastic waste
- · Expired or obsolete paints
- · Energetics, explosives, and propellants
- · Materials not suitable for transportation or disposal



CONTACT INFORMATION

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