

Rapid Radicals Torrent³ Treatment System



The Torrent³ Treatment System combines rapid solids removal with an ozone-based advanced oxidation process to treat up to 144,000 GPD.



The technology is packaged into a mobile, small-footprint system to create a comprehensive, adaptable option for wastewater treatment. By utilizing proprietary heterogenous catalysis to increase ozone efficiency and treat persistent contaminants, the Torrent³ is able to meet pretreatment and/or permit requirements.

Heterogenous Catalysts

- ✓ Each Torrent³ System equipped with heterogenous catalysts that increase ozone efficiency by boosting ozone decomposition into hydroxyl radicals
- ✓ Customizable, scalable design
- ✓ Built-in modular catalyst housings for ease of maintenance/recharge

High-rate Advanced Treatment

- ✓ Each Torrent³ System can treat up to 144,000 GPD
- ✓ Enhanced color/turbidity removal to increase aquatic health & aesthetics
- ✓ Efficient organics and solids removal and pathogen inactivation to meet permit and reduce sludge production

Efficiency and Ease of Use

- ✓ Fully-automated plug-and-play systems
- ✓ Built-in foam management system to increase treatment efficiency and reduce operational disruptions
- ✓ Eliminates need for on-site chemical storage/shipments

Applications

- ✓ Industrial Pretreatment
- ✓ Private Indirect Reuse
- ✓ Mobile Treatment for Existing Wastewater System Improvements
- ✓ Excess Capacity for Seasonal /Increased Production
- ✓ Industrial NPDES Permit Discharge

Performance Metrics

BOD/COD	> 90% removal (< 30 mg/L effluent)
TSS	> 90% removal (< 30 mg/L effluent)
Pathogens	99.999% removal (E. coli, Enterococci)
Nutrients	60% TKN removal; 75% TP removal
Micropollutants	Ability to oxidize most micropollutants (currently testing pharmaceuticals and PFAS)

Product Specifications

Volume	Up to 144,000 GPD
Footprint	360 sq. ft. (45 ft. shipping container)
Treatment Time	20 Minutes

CONTACT US

Please reach out for more information about the Torrent3!



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