

ARC Restoration Announces Hydroxyl Generator Technology for Chemical-Free Fire Damage Odor Removal

September 26, 2025

DENVER, CO - September 26, 2025 -
ARC Restoration, a disaster cleanup and restoration company serving the Denver metropolitan area, announces the deployment of hydroxyl generator technology to neutralize fire-related odors without the use of harmful chemicals, addressing growing concerns about indoor air quality following fire damage incidents.

The company has integrated hydroxyl generators into its fire damage restoration protocols, offering property owners an alternative to traditional chemical-based odor removal methods. This technology produces hydroxyl radicals that break down odor-causing molecules at the molecular level, eliminating smoke odors while maintaining safe indoor environments for occupants during the restoration process.

"Hydroxyl generators represent a significant advancement in fire damage restoration technology," said Chris Barnett, spokesperson for ARC Restoration. "These systems neutralize odors without requiring property owners to vacate their homes or businesses during treatment, unlike ozone generators which require

complete evacuation due to health risks."

ARC Restoration Fire Damage Restoration Denver services now incorporate hydroxyl generator technology alongside thermal fogging systems and HEPA filtration equipment. The hydroxyl process works continuously to eliminate smoke particles embedded in building materials, furniture, and personal belongings while restoration work proceeds in occupied spaces.

The technology addresses a critical challenge in fire damage restoration where smoke odors persist long after visible damage has been addressed. Hydroxyl radicals naturally occur in Earth's atmosphere and work to decompose organic compounds, making them effective against the complex mixture of chemicals present in smoke residue from residential and commercial fires.

Fire incidents in Denver properties often result in extensive smoke penetration throughout structures, affecting areas far from the original fire source. The hydroxyl generator deployment allows simultaneous treatment of multiple affected zones without the setup time and safety concerns associated with chemical fogging procedures.

The company's certified technicians position hydroxyl generators strategically throughout affected properties in Arvada, Aurora, Boulder, Castle Rock, Centennial, Englewood, Golden, Highlands Ranch, Lakewood, Littleton, Parker, Thornton, and Westminster. Treatment duration varies based on fire severity, with most residential properties requiring 24 to 72 hours of continuous operation for complete odor elimination.

ARC Restoration Fire Damage Restoration specialists combine hydroxyl treatment with comprehensive restoration services including water extraction from firefighting efforts, structural assessment, and content restoration. The integration of hydroxyl technology into existing protocols reduces overall restoration timeframes while maintaining indoor air quality standards required by insurance providers.

Recent fire damage incidents in Denver have highlighted the importance of addressing both visible damage and invisible contaminants. Hydroxyl generators complement traditional restoration methods by continuously treating air and surfaces throughout the restoration process, preventing the re-emergence of odors that often occurs with single-treatment approaches.

"The ability to operate hydroxyl generators in occupied spaces transforms the restoration experience for property owners," added Barnett. "Business operations can continue in unaffected areas while treatment proceeds, and families can remain in habitable portions of their homes during the restoration process."

ARC Restoration maintains 24/7 emergency response capabilities throughout the Denver metropolitan area, deploying hydroxyl generators as part of initial response protocols for fire damage incidents. The company provides comprehensive disaster recovery services including water mitigation, mold remediation, sewage cleanup, and biohazard removal for residential and commercial properties across Colorado.

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ARC Restoration

At ARC Restoration, our mission is to create a healthy and safe environment for the local community. We achieve this by providing premium restoration, mitigation, and recovery services using industry-leading processes and high-quality products.

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