

The FreshStart Advanced Oxidation Process (AOP)

THE SCIENCE

The *FreshStart* Process works by exposing viruses, bacteria, pathogens, allergens & VOCs to an *Advanced Oxidation Process*.

When exposed to the proper dosages, the *Advanced Oxidation Process (AOP)* causes the carbon-based molecular structures of living organisms to break down and become nonviable.

The patented uses the simultaneous application of chemical and physical motive forces.

Specifically, the process consists of the application of a pre-calculated dosage of hydroxyl radicals (OH.), hydrogen peroxide (H₂O₂), ozone (O₃) and ultraviolet light (UV).

AOP's are capable of oxidizing compounds containing carbon or sulfur elements, as well as inorganic molecules such as malodorous sulfur compounds and volatile organic carbon compounds (VOCs).

Bottom line . . . proper dosage exposure to the FreshStart AOP breaks down the targeted compound's molecular structure, rendering it harmless and odorless.

The patent-pending, ergonomically designed equipment used to generate and deliver the properly distributed dosage of the *Advanced Oxidation Process (AOPs)* for mobile applications is pictured below.

The *FreshStart Advanced Oxidation Process (AOP)* results in healthier living environments, as well as increased productivity and reduced contingent liabilities in the workplace.

It is important to note that the combination of the process, and the equipment developed for delivery, provide greatly increased efficacies in the decontamination process. Until now, the environmental problems solved with AOPs have been addressed with aqueous chemicals and processes that are far more labor intense and environmentally destructive. Finally, the *FreshStart* AOP patent and equipment embody the full range of EPA and OSHA compliance requirements applicable to the Indoor-Air-Quality (IAQ) and Building Maintenance markets.

THE FreshStart PROCESS MOBILE SERVICE

Prompt Care's patented process has been refined, formulated into an easily delivered service, and proven effective in over 1600 sites as the *FreshStart by Prompt Care*[®] Process.

The *FreshStart* Process Mobile Service is capable of consistently denaturing viruses, bacteria, mold and volatile organic compounds (VOC's) within homes and offices.

The service's primary elements are the controlled relationships between AOP concentration, time, temperature and indoor ambient relative humidity (RH). The control of the relationship between these elements, based on the contaminant being treated, is termed the 'dosage calculation'.

The *FreshStart* service is a strict application of the prescribed dosage within a controlled area, wherein all people and animals have been "locked out". Independent research has established that the AOP permeates porous materials, such as carpet, drapery fabrics and clothing, eliminating the effects of allergens and pathogens (bacteria, viruses, germs, surface mold, yeast, carbon or sulfur based odors) within the home or office. The negative health effects of the contaminants are thereby eliminated and the air, as well as solid surfaces within the treated area, will have dramatically reduced or completely eliminated allergens, pathogens and irritants, and will be immediately safe for habitation.

Simply stated, the treated area is healthier and smells "*Fresh*".



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