The Decon7 Product Overview Guide



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About Decon7 Systems

Decon7 Systems operates within the world's most dangerous pathogenic, chemical, and energetic hazards and threats. Work is done every day to develop solutions to combat these risks. And we believe that these innovative solutions should not be kept on laboratory shelves, but that they should be made readily available to everyone in order to keep the food supply and public and private spaces and property clean and safe.

We do this by commercializing some of the world's most innovative compounds originally engineered for use in response to terrorist attacks and the world's most dangerous toxins. Our compounds and foams are designed and manufactured specifically for cleaning, disinfecting, deodorizing, neutralizing, decontaminating, mitigating, and suppressing threats from toxic chemicals and materials, biological hazards (e.g., SARS-CoV-2/ COVID-19), energetics, explosives, and fires. Our mission is to provide our customers with highly efficacious and versatile products that have a low environmental impact, can be used across many different industries, and are compatible with a variety of materials and equipment.

Decon7 offers the patented anti-microbial chemical D7 for cleaning, sanitizing, and disinfecting. D7's adhesion allows for the longest contact time and was developed and formulated to be efficacious against a wide variety of organisms^{*}. D7 is used in a wide variety of industries, including food and biosecurity, public safety and first responders, and sanitation. D7 is EPA registered to penetrate, kill and remove biofilms and approved for use on SARS-CoV-2/COVID-19. Experience the D7 difference.^{*}

Chemical Solutions

D7

D7 is a disinfectant, virucide, fungicide, deodorizer, and food contact sanitizer^{*}. It's derived from aqueous-based decontamination technology that can rapidly neutralize highly toxic chemical and biological materials, making it suitable for both everyday sanitation needs and highly specialized applications in a variety of industries.^{*} It is a hydrogen peroxide-based formulation that also contains surfactants (i.e., soap), mild solvents, inorganic salts, and water. The formulation is made up of mild ingredients, which give it low toxicity and corrosion properties.

D7 disinfectant kills many common foodborne pathogens, including those found in biofilms. For these biological materials (e.g., bacteria, viruses, and fungi), the surfactants soften the cell walls, allowing the hydrogen peroxide to penetrate to the interior for a kill.

D7 also neutralizes toxins encountered by first responders and military personnel. For toxic chemicals, the surfactant ingredients dissolve the unwanted chemical into the D7 formulation, where it is attacked and neutralized by the hydrogen peroxide.



Hand Sanitizer

Decon7 Antiseptic Foaming Hand Sanitizer is based on the active ingredient benzalkonium chloride in a unique, nondrying, moisturizing, and conditioning formulation. The product kills up to 99.9999% of common germs that may cause illness and produces a fast-drying, non-sticky foam that leaves the skin with a soft, refreshing, and silky after-feel.

In comparison to alcohol-based hand sanitizers, our hand sanitizer is nonflammable, non-staining, and less drying to skin. Published studies report that benzalkonium chloride hand sanitizers, like Decon7 Antiseptic Foaming Hand Sanitizer, demonstrated greater sustained degerming activity than gelled alcohol hand sanitizers. Alcohol-based hand sanitizers were also found to become less effective with repeated use.



Our Hand Sanitizer is based on the active ingredient benzalkonium chloride in a unique, non-drying, moisturizing, and conditioning formulation.

D7-MPC-100 Multi-Purpose Cleaner

D7-MPC-100 Multi-Purpose Cleaner is a non-hazardous, pH neutral (pH 7.0-7.8), highly concentrated, multi-purpose cleaner. It cleans effectively, even at high dilutions, providing an excellent value in cost per use. Unlike with more dilute detergents, this product eliminates the need to buy, ship, and store water in a diluted product. D7-MPC-100 can safely be used to clean both equipment and surfaces in a facility.

Novacool Universal Extinguishing Foam

Decon7 offers the latest in suppression foam technology. Novacool UEF is a readily biodegradable mixture of anionic, nonionic and amphoteric surfactants. It does not contain any nonylphenol ethoxylates (NPE's), fluorosurfactants, or glycol ethers. Novacool UEF works in three ways to extinguish a fire. It reduces the surface tension of water to improve the penetrating ability of water, vastly improves the heat transfer from the fuel into water, and with its cooling and blanketing properties, reduces fuel vapor pressure of class B fuel material.

Novacool Foam has passed all requirements for UL testing with flying colors and currently holds UL Certification NFPA 18, 2006 Edition Classification for A and B.



Brush

Industry Identifier





D7 AFC-380 High Expansion Foam

AFC-380 Advanced High Expansion Foam was developed at Sandia National Laboratories in the 1980's. It is used to reduce shock wave overpressure from explosions.



Product Application Solutions

BDAS+

The BDAS+ disposable tactical sprayer is a breakthrough solution to the complex chemical and engineering issues of delivering the world's most effective military grade decontaminant in an individual rapid response application system. Where contamination is a threat, BDAS+ minimizes exposure risk to the responder. BDAS+ safely neutralizes harmful VOCs (volatile organic compounds), hazardous industrial chemicals, chemical and biological warfare agents, and bodily fluids. Having been tested for use in extreme environments, the BDAS+ is perfect for use by first responders and military personnel.



BDAS+ safely neutralizes harmful VOCs (volatile organic compounds), hazardous industrial chemicals, WMD Agents, and bodily fluids.

BDAS+ Training

Train with the BDAS+ Training Unit to ensure proper response procedure to contamination threats, minimizing exposure risk to the responder. The Training Unit is identical to the BDAS+, an individual rapid response application system, allowing for hands-on experience with an inert foam so that no product is wasted during training.



Responder Wipes

RESPONDER WIPES[®] were developed by a firefighter for firefighters. They are uniquely formulated with micellar water, an innovative ingredient with cleansing compounds that dissolve dirt, oil, soot, and other hydrocarbons. Micelles gently lift away toxins and contaminants, and draw out impurities from pores while hydrating skin more effectively than traditional cleansing wipes. The Responder Wipes come in three sizes and have a 3-year shelf life.



Available Options:

- CHIEF'S WIPE (16)
 X-Large Wipes, 12" x 24", individually packaged
- CAPTAIN'S WIPE (16) Medium Wipes, 8" x 12", individually packaged
- LIEUTENANT'S WIPE
 (20) Small Wipes, 8" x
 8", comes in a resealable
 pouch



Modular Decontamination System (MDS) w/Case BDAS+

The F1D|Modular Decontamination System (MDS-1X[™]) is a single complete decontamination workstation / contamination control area (CCA) that sets up in 120 seconds and provides for highly effective decontamination of chemical, biological, and radiological (alpha) contaminants.

A fold-out aluminum stand and a Cordura[©] nylon tool skirt provide a waist-high workstation and waste bin combination. Decontamination is conducted in the 4' X 4' inflatable contamination control shuffle pit with attached hot and cold lines. A sensitive equipment wash basin attaches directly to the top of the stand.

Available Options:

Modular Decontamination System (MDS) without BDAS+

Industry Identifier



The MDS 1X system:

- Provides tactical decontamination capacity for up to 16 persons
- Is portable, and weighs 28 lbs fully loaded
- Is training-friendly with its rapid set up and easy re-stow
- Comes complete with the latest in decontamination media technology (wet and dry media)

Designed to scale up with additional units for additional capacity, the F1D|MDS[™] system is fully scalable, depending on the number of individuals and time limits for decontamination.

Sprayers

Protexus Handheld Electrostatic Sprayer Model PX200ES

This cordless electrostatic technology brings new, 360-degree, touchless sanitizing capabilities to infection control experts, and reaches up to 3X more surfaces in the same amount of time it would take with today's buckets, rags, wipes, or other infection control tools. While they resemble simple pumps or misters and are as easy to operate, the electrostatic device provides every worker with a powerful tool to attack pathogens more efficiently and effectively than ever before.

Smith Professional Pump Sprayer with Viton

Our Multi-Purpose sprayer is built for heavy duty use. It has a poly wand with shut-off featuring a comfort grip, in-line filter, and lock-on feature to reduce hand fatigue. When it's time to refill, the pressure release cap safely releases the pressure down and away from you before opening the tank to prevent accidental chemical spray. Save time and energy with the highly efficient pump that requires 25% fewer strokes per gallon compared to the leading competitor.



Available Options:

Protexus Backpack
 Electrostatic Sprayer
 Model PX300ES





Foggers

67" Free Standing 4-Way Air Powered Fogger

The 67" 4-Way Fogger is a chemical atomizer that uses compressed air (requires a minimum of 29.5 CFM @ 80 PSI) and venturi action to draw ready-to-use chemical solution. It atomizes the solution and project it as light, "damp" fog particles in 4 directions up to 25 feet. This freestanding system can be used in any facility and moved to sanitize multiple locations.

This freestanding system can be used in any facility and moved to disinfect multiple locations.



System requirements include:

- A ready-to-use chemical solution
- Compressed air requires a minimum of 29.5 CFM @ 80 PSI
- ¹/₂" minimum air supply line



20 Gallon Portable 455 4-Way Timed Fogger

The Portable Timed/Delay 20 Gallon 455 4-Way Fogger is a dry mist sprayer that uses compressed air (70 CFM @ 80 PSI) and venturi action to draw ready-to-use chemical solution from the tank on the stainless steel cart and project it up to 35 feet in 4 directions. The adjustable output sprays mist (fog) into the air to cover exposed surfaces and to penetrate hard-to-reach areas. This unit features a telescoping mast and can also be used as a 2-Way fogger. An adjustable delay timer (up to 6 hours) allows the unit to activate at a later time, and an adjustable run timer controls how long the unit will operate (up to 60 minutes).

The adjustable output sprays mist (fog) into the air to cover exposed surfaces and to penetrate hard-to-reach areas.



System requirements include:

- A ready-to-use chemical solution
- Compressed air up to 70 CFM @ 80 PSI
- ½" minimum air supply line
- Electric: 120 V



15 Gallon Portable Misting Unit Natural Viton 120 V Compressor PSGN130

This 120 VAC electric unit lets you apply disinfectants and other chemistry with a handheld wand with a 25 ft. (7.6 m) coiled discharge hose (unit optins includes Viton pump seals and a short wand). With a builtin air compressor, all you have to do is add a pre-mixed solution, plug the unit into a standard wall outlet and get to work. This unit is ideal for fogging/misting in areas without compressed air. Other convenient features include a 15-gallon see-through tank and hinged back plate that provides tool-free access to components.

Electric Cold Fogger

Smith Performance sprayers and foggers are built to work as hard as you do. They are durable, professional products built to withstand the most demanding work conditions. The FC2600 electric cold fogger atomizes chemicals without using heat. Used in topical applications where chemical coating is needed for specific areas, it generates a fog that can be controlled and directed, and treats an area with a light application of chemicals. The nozzle adjusts from light mist to heavy coatings, making it suitable for a variety of applications.





XPOWER ULV Cold Foggers

F-8, F-8B, F-16, and F-16B ULV (ultra-low volume) Cold Foggers offer you ultimate performance in a small package. Featuring a light and compact design, these units are ideal for full coverage for office, restaurants/ food services, schools, hospitals, senior centers, pet boarding, greenhouse, and commercial properties as well as other applications. The reservoir incorporates an easy fill/tight cap and a reservoir level window to monitor your liquid levels. Applying disinfectants, sanitizers, and other solutions has never been easier than using ULV Cold Foggers. With its powerful spray distance and ultra-small droplet size, this compact versatile unit is the industry leading choice for all your fogging needs.

The reservoir incorporates an easy fill/tight cap and a reservoir level window to monitor your liquid levels.



Available Options:

- XPOWER F-8 ULV Cold Fogger 27 oz, cordless
- XPOWER F-8B ULV Cold Fogger 20.2 oz, cordless
- XPOWER F-16 ULV Cold Fogger 54 oz, cordless
- XPOWER F-16B ULV Cold Fogger 40 oz, cordless



Foamers

Foam Cannon

Our Foam Cannon is made for efficiency, with a large tank, the availability to house up to 300' of 1" layflat hose and a 70'+ application distance it is possible to foam entire rooms without needing to refill or move the equipment. An all stainless steel set of fittings ensures it can handle rough environments and repeated use. At Decon7 we understand it's important to get back to production, that's why our chemicals and equipment are geared towards saving you time, labor, and money.



Industry Identifier





FC-150 Foam Wagon

Decon7 offers a Foam Wagon that revolutionizes the way foaming is performed in food and biosecurity sanitation. Our Foam Wagon is made for efficiency, with an onboard gas air compressor, large tank, the availability to house up to 300' of 1" layflat hose and a 70'+ spray distance it is possible to foam an entire barn without needing to refill the tank. An all stainless steel set of fittings and all-terrain tires ensures it can handle rough environments and repeated use. One Foam Wagon can reduce clean out down time by 1/3, replacing up to 5 workers and traditional foam applicators.

- Certified and pressure tested high capacity 120 gallon or 150 gallon tanks
- Made from rust-resistant 304 stainless steel with an orange powder coated tank and black powder coated platform
- Easy to read pressure gauges
- Powerful, far reaching fan spray with a 70'+ foam stream
- Adjustable foam/spray gun nozzle with on/off functions



System requirements include:

- 1½" cam and groove hoses
- Motorized vehicle
- D7 chemical, mixed, for best results

Industry Identifier



An all stainless steel set of fittings and all-terrain tires ensures it can handle rough environments and repeated use.

10-Liter 2.6 Gallon Dual Power Foam Unit

This foamer offers the convenience of air power, with the small footprint of a manual pump up unit. Dual operation with a manual pump and connection for air supply allows for flexibility in applications. Connect to an air source to pressurize the unit, then disconnect and move the unit to the area being cleaned.

- Produces thick, high quality foam
- 2.6 gallon (10 liter) capacity
- 6 foot (1.8 meter) hybrid thermoplastic elastomer (TPE) discharge hose – lightweight, durable, and chemical-resistant
- Natural color tank for easy visibility of product levels
- Viton seals for chemical compatibility
- Pressure regulator and pressure relief valve for safety



This foamer offers the convenience of air power, with the small footprint of a manual pump unit.

Portable Compressor Foam Unit Premix Viton Twin Line

The Pre-Mix Electric Foam Unit has a compact design and on-board air compressor making it efficient and portable. It has a long suction line that draws from a separate container of pre-mixed chemical solution and is deployed through a coiled twin-line tubing and trigger handle and fan tip allowing for increased coverage.



Industry Identifier

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Introducing the D7CAF Backpack Sprayer for D7-DF200. Designed specifically for first responders working in the toughest conditions, the D7CAF Pack is easily handled by a single person. This Portable Spray system is capable of producing a powerful 45 foot discharge of foam decontaminant. The patented foam technology of the backpack system paired with the patented D7 formula provides superior decontamination capabilities. The D7CAF Pack is housed in a custom fabricated cabinet built for durability and portability. D7CAF Pack's center of gravity, holstered pistol grip, and padded straps maximize comfort and accuracy during emergency situations.



10 Gallon Capacity Portable Foam Unit - Natural - Viton

Decon7 offers a variety of Portable Foam Units to fit any foaming needs. The Portable Foam Unit draws from a pre-mixed solution and is powered by compressed air. The universal hinged back plate allows easy and tool-free access to the components for the quick-change pump. The tank has a natural color for easy visibility of product levels and a hinged lid for easy filling.



Available Options:

- 20 Gallon Capacity Portable Foam Unit Natural Viton
- 25 Gallon Capacity Portable Foam Unit Natural Viton





Gemini Mixing and Wall Mount Foamer

This medium-volume foam applicator dilutes three chemical concentrates at the same time and projects foam onto any surface up close or at a distance up to 12 feet. It uses standard city water pressure to draw and blend three chemical concentrates into the water stream to create an accurately diluted solution, producing a rich, clinging foam. A wall-mounted system provides easy storage and access.

This medium-volume foam applicator dilutes three chemical concentrates at the same time and projects foam onto any surface up close or at a distance up to 12 feet.



System requirements include:

- Water temperature up to 160°F
- 35-125 PSI and up to 3 CFM working air pressures and flows
- Flow of 1.2 GPM
 @ 40 PSI
- ¹/₂" supply line
- ³⁄₄" x 50' hose





Timed Entryway Foamer

Decon7 offers Timed Entryway Foamers in a variety of sizes to fit all entryways. The Timed Entryway Foamer is an automated foam applicator for projecting sanitizing chemicals on to the floors of an entryway to prevent cross-contamination.

When activated, this venturi injection system uses city water pressure to draw and blend chemical concentrate into the water stream to create an accurately diluted solution. A high volume of rich, clinging foam is created by injecting compressed air into the solution to greatly increase volume and coverage ability. The foam is then projected through the discharge hose and unique spreader nozzles. The system timer is user-programmable to meet the needs of any facility.



System requirements include:

- Chemical concentrates
- Water temperature up to 160°F
- Compressed air up to 3 CFM
- City water pressure (35-125 PSI)
- City water flow of 1.34 GPM @ 40 PSI
- ½" supply line
- ¾" x 10' hose
- 120 V electricity



Timed Dual Entryway Foam Sanitizer

The Timed Dual Entryway Foam Sanitizer is an automated foam applicator for projecting sanitizing chemicals onto floors of two adjacent 3' wide employee walk doors to prevent cross-contamination.

The Timed Dual Entryway Foam Sanitizer is an automated foam applicator for projecting sanitizing chemicals onto floors.



System requirements include:

- Chemical concentrate
- Water temperature up to 160°F
- Water pressure 35 to 125 PSI
- Water flow 2.68 GPM @ 40 PSI
- 1/2" minimum supply line
- Compressed air up to 4 CFM
- 3/4" ID x 10' hose
- 2 entryway spreader nozzles (1 for each door)
- 120 V electricity



Timed Entryway Foamer MV 6' Door

The Timed Entryway Foam Sanitizer is an automated foam applicator for projecting sanitizing chemicals onto floors of 6' wide employee walk doors to prevent cross contamination.

- Applies a layer of rich, clinging foam to entryway floors to prevent crosscontamination
- Designed for 6' wide double doors
- Dilutes chemical concentrate "on-the-fly" from a container near the unit
- The unique MV Spreader[™] nozzle lays a foam pattern 6' across and 6' wide to ensure all foot traffic and cart wheels are fully exposed to the sanitizer
- Automatic activation and shutoff for use in moderate to high traffic areas
- Adjustable timer controls the application of foam at regular intervals - up to 1 minute foaming and up to 1 hour off
- Adjustable foam consistency (wet/dry)
- Chemical resistant wetted components ensure durability and years of reliable service with minimal maintenance



System requirements include:

- Chemical concentrate
- Water temperature up to 160°F
- Water pressure 35 to 125 PSI
- Water flow 2.45 GPM @ 40 PSI
- 1/2" supply line
- Compressed air up to 4 CFM
- 1" ID x 10' hose
- MV Entryway Spreader nozzle
- 120 V electricity

Available Options:

 Time Entryway Foamer HV 8-16' Forklift Door



Triple Pickup Timed Entryway Foamer

This is a custom hybrid product, using the Triple Pickup Gemini Foamer proportioner combined with the timed controller and delivery system of the Timed PF Entryway Foam Sanitizer.

The Triple Pickup Gemini Foamer is a medium volume foam applicator that dilutes 3 chemical concentrates at the same time and projects foam onto any surface up close or at a distance.

The Timed PF Entryway Foam and/or disinfectant is an automated foam applicator for projecting sanitizing chemicals onto floors of 3' wide employee walk doors to prevent cross-contamination. This system receives ready-to-use chemicals from a user-supplied central chemical feed system. Rich, clinging foam is created by injecting compressed air into the solution to greatly increase volume and coverage ability. Foam is then projected through the discharge hose and Spreader[™] nozzle. The system timer is userprogrammable to meet the needs of any facility.



System requirements include:

- Ready-to-Use Chemical Solution
- Water temperature up to 160°F
- Water pressure 35 to 75 PSI
- Water flow 1.34 GPM @ 40 PSI
- 1/2" Supply Line
- Compressed Air up to 3 CFM
- 3/4" ID x 10' hose
- Entryway spreader nozzle
- 120 V electricity



LCHC Foamer

The LCHC Foamer is a medium volume "high concentrate" foam applicator that will produce strong dilution ratios for the toughest cleaning jobs. Weaker dilution ratios are achieved with metering tips. This venturi injection system uses city water pressure (50 - 125 PSI) to draw and blend a high concentration of chemical into the water stream to create a very strong solution. Rich, clinging foam is created by injecting compressed air into the solution to greatly increase volume and coverage ability. The foam is then projected through the discharge hose and fan nozzle on to any surface up close or at distances up to 12 feet. Gauges display incoming water and air pressure.

Rich, clinging foam is created by injecting compressed air into the solution to greatly increase volume and coverage ability.



System requirements include:

- Chemical concentrate
- Water temperature up to 160°F
- Water pressure 50 to 125 PSI
- Water flow 1.45 GPM @ 50 PSI
- Water supply line 1/2"
- Compressed air up to 3 CFM
- 3/4" ID x 40' hose
- 50250 nozzle



Mixing

Electric Mixing Station

The 105HCDU Electric Mixing Station blends three (3) liquid products (chemicals and/or water) into a single solution and dispenses into any container. This unique proportioning system uses an electric pump to draw the first product from a usersupplied container and provides the fluid pressure for a venturi injector that draws in the remaining products. Metering tips control the rate at which the second and third products are drawn into the first, and the resulting solution mixes thoroughly prior to being discharged through the open flow hose. Using this equipment ensures thorough mixing of sanitation chemicals at the proper concentration.



System requirements include:

- Three chemicals ready to mix
- 120 V power supply
- ¾" x 5' open flow discharge hose

Industry Identifier



The 105HCDU Electric Mixing Station blends three (3) liquid products (chemicals and/or water) into a single solution and dispenses into any container.

2 Way Mixing Station 105 HC

The 2-Way HC Mixing Station has a water flow rate of 1 GPM at 40 PSI and is a "high concentrate" 2-chemical proportioner for filling smaller sized containers with strong solutions. This venturi injection system uses city water pressure to draw and blend a high concentration of chemical into the water stream to create up to 1:1 dilution ratios. Use ball valves to switch between chemicals. Ball valve activation allows for hands-free dispensing.



Additional options:

- 3 Part Electric Mixing Station
- 3 Part water Driven Mixing Station 1:1, 1:5

Industry Identifier



Air Powered Mixing Station

The 105HCDU FPV Mixing Station blends three (3) liquid products (chemicals and/or water) into a single solution and dispenses into any container. This unique proportioning system uses an air-operated pump to draw the first product from a user-supplied container and provide the fluid pressure for a venturi injector that draws in the remaining products. Metering tips control the rate at which the second and third chemicals are drawn into the first, and the resulting solution mixes thoroughly prior to being discharged through the open flow hose.



Additional options:

- Three chemicals
- Up to 3 CFM compressed air
- 1/2" x 5' open flow discharge hose



We don't just sell disinfectant products and equipment, we also provide guidance and training to help you create a comprehensive sanitation program that works specifically for your facility and workforce.

Schedule a consultation to learn more about the science behind D7 and how you can use it in your daily, weekly and monthly operations.

Schedule a consultation

www.decon7.com

*Review D7 product label before use.