



Gross Decontamination for all Hospital First Responders

FSI News / By Graham Conron

Graham Conron March 30, 2020

A Critical Component to Maintaining the Operability of the Medical Response System during pandemics.

Report to your hospital/medical center/other. Before entering the facility, in a private shelter/other, remove all clothing and jewelry and place in an ID bag or locker assigned to you.

Dress in your assigned scrubs/other for your shift

Enter the 'Hot Zone' for your shift. Work Safely.

Your shift is over – now it's time to think of your family and your own safety.

Every hospital has – or should have – portable hazmat decon shower systems – have them set up and in use.

Enter Mass Casualty Gross Decon Shower* as set up per hazmat decon protocols – likely located near the emergency room entrance.

In the initial undress area, dispose of dirty clothes/scrubs through the Disposal/HVAC ductwork into an overpack disposal drum.

Enter the Shower area and shower in privacy for modesty/to stay out of the weather and the view of the public or press.

Enter the redress area of the mass casualty decon shower and claim your clothes and belongings – dress and safely go home.

*FSI offers among the largest offering of portable hazmat mass casualty 4 stage decon showers systems inclusive of 1 Line mass casualty DAT2525S, 2 Line DAT3030S and DAT3535S, 3 Line DAT3060S, 4 Line DAT4070S, and 5 Line DAT4099S. FSI Showers per ANSI #113 Standards offer a fine water drenching mist WITHOUT high pressure force that can push carcinogens further into sensitive or damaged skin.

These are FSI recommendations only – follow all protocols as developed by your department/county/state.



FSI 2 LINE, 3 OR 4 STAGE MASS CASUALTY DECON SHOWER SHELTER

NSN #: 4230-01-567-5564



- Rapid Deploy
- Decon Pool and Plumbing are Pre-installed
- Very Portable
- Easy to Setup and Use
- Many Options Available
- Small Storage Footprint

DAT®3535S — 2-line, 3 or 4 stage mass casualty decon shower system, approx. 10'W X 15'L X 9'H (3036 mm X 4554 mm X 2732 mm), 150 sq. ft. (13.9 M²), 230 lbs. (65 kg), undress/detergent shower/rinse shower/redress configuration. Decon 2 to 4 ambulatory personnel, 2 non-ambulatory or any combination at one time. Each line offers a 4' (1214 mm) undress, 7' (2125 mm) detergent/rinse shower area, 4' (1214 mm) redress section.

FSI® DAT® SERIES PNEUMATIC SHELTER SYSTEMS GENERAL SPECIFICATIONS

Frame / All Shower Pools: Heavy Duty 1100 Dtex* polyester coated w. plastomer on both sides, UV/Chemical resistant, quadruple overlapped and glued.

Canopy: Heavy duty 100% nylon twill (3/5) w. PU white pigment inner coating, ABT. 0 23mm X 57/58. Wt. AB1.230GR/Sq. M - UV/chemical resistant/fire retardant – Rated Ultra Violet Protection (UPF) of 50+ where ASTM D6603 states a UPF of 40+ is rated Excellent; and water repellent w. a hydrostatic resistance of 250 psi + - Anti fungus/Mildew resistant to meet and exceed US Fed. Test MIL.STD.810E 508 and ASTM G 21-96 (2002); Water Resistance (ISO 811 (E) 1981, hydrostatic pressure test at water pressure 600 m/min. = 5540; Tensile Strength (ISO 13934-2: 1999 C.R.E. Method in N) - warp = 1300 - weft = 1500; Tear Strength (ISO 13937-1:2000, Pendulum method) - Warp = 25 Weft = 43; Burst Strength (ASTM 0 3787:2001, C.R.E. Ball bursting method N) = 1620; Seam Strength (ISO 13935-2: 1998, Grab method N) Sewing threads fail at 710; Fire resistance meets and exceeds CPAI 84 SECTION 5 1995, US Fed. Test CFR.1610, meets NFPA701 Flammability Test method 1 (2004), NFPA 702 w. 'A' burn scale rating, Japan JIS A 1322: 1966, Method A. All seams double stitched and coated both sides.

Floor: 1,000 dtex 0.58mm Nylon coated w. PU, tensile strength: 2545N/2360, Tear Strength: 106/102N, weight: 660 grams per sq. mm 60" W.

Technical Data: Air pressure internally once inflated = 4.3 psi (0.3 bar) USA Federal Standard FS # 191 5041/5102/5134/5970 and DIN EN ISO 2060/1409-2/2286-1 AND DIN 53354/53363/53357/53361 Test method structural test results.* Total Weight (g/m²) – 1055 Thickness (mm) – 0.90 Cut strip tensile strength (lbs. /in.) – Warp = 440 - Weft = 380 Elongation (%) – Warp = 27 - Weft = 30 Tongue tear (lbs.) – Warp = 30– Weft = 35 Adhesion (lbs. /in.) – Warp = 21 – Weft = 21 Density = 28 X 26. Meets NFPA 701 and DIN4102-B1, M-2.

*Production lot runs can result in variances and all results are approx.

Standard color is 'FSI Blue®' Green, White, Red and Tan/Sand also available as standard. Other colors offered P.O.A.

All FSI® decon showers are ANSI # 113 compliant

*** All FSI Showers utilize Potable Water approved Hose systems. These hoses are manufactured with Texin 985U (formerly DP7-1077) or Texin 1209 which are approved by NSF. This polyurethane is approved for "Potable Water" use by NSF International (NSF Standard 61 – Drinking Water System Components – Health Effects).

In accordance with **NFPA 1851** all FSI Showers are ideal for fire fighter wash down/decon immediately after exiting fire scene and prior to removal of any PPE.

FSI shelters help ensure compliance with the OSHA Heat Illness requirement as described at:

https://www.osha.gov/OshDoc/data_Hurricane_Facts/heat_stress.pdf

FSI NORTH AMERICA®
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FSI FULLY CONFIGURED HAZMAT DECON SHOWER –SYS AND –SYS-LED SYSTEMS



In accordance with **NFPA 1851** all FSI Showers are ideal for fire fighter wash down/decon immediately after exiting fire scene and prior to removal of any PPE.

For '-SYS-LED' systems, the F-1225-0500-STL stringable lights will be removed and replaced by the F-SFLL LED systems.



FSI® proudly offers among the world's largest offering of tailorable portable hazmat decon shower systems including the large-scale use 5 Line, Four Stage, Mass Casualty DAT@4099S that handles 20 victims at any one time in various stages of undress/shower/rinse/redress – and does so indefinitely until the incident is handled.

FSI® showers and shelters are robust, rugged, and tough – and in service worldwide in the harshest of environments from desert to Arctic to rainforests to windswept environs.

FSI® Decon Showers and Temporary Emergency Air Structure (TEAS®) Shelters are fabricated of the same heavy duty air berm fabrics employed in all FSI® Rescue Boats that are made to and must handle extreme cutting, abrasion, scouring, and so on without compromising the mission.

Properly tie down and staked off FSI® Showers and Shelters can withstand up to 70 mph (110 kph) wind gusts.

Over time Shower purchases have evolved into complete System acquisitions and so FSI offers '- SYS' and '-SYS-LED' Systems

FSI shelters help ensure compliance with the OSHA heat illness requirement as described at:
https://www.osha.gov/OshDoc/data_Hurricane_Facts/heat_stress.pdf

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DECON SHOWERS DETAILED SPECIFICATIONS

The FSI model DAT@4099S is a five-line (367/92 M X 5 Lines W), 3 or 4-station Mass Casualty Decon Shower System which handles five parallel lines of casualties at the same time in three or four sequential stations --- (1) undress, (2) detergent shower # 1 - (3) rinse shower # 2 OR handle 2 personnel in separate showers simultaneously in each lane, (4) redress. This unit deploys in 3 - 4 minutes, processes five and/or up to 10 non-ambulatory patients on stretchers at one time OR 5 and/or up to 10 ambulatory personnel at a time and/or any combination of the above.

Undress and redress stations are dry (plumbing is possible and optional); shower stations may include 3 showerheads and one hanging coiled 1/2"/13 mm hose line with attached multiple function spray nozzle which thoroughly drenches and decontaminates via a fine water mist. There are a total of 16 multiple function spray nozzle guns and 4 sections of 3 shower heads for a total of 28 shower heads as standard. As an option -- by configuring the changing areas on both ends as decon showers one can double the capacity as detailed above. The unit is configured with a 4/1.22 M undress/privacy area in 5 lines on entrance, a 15.5/4.72 M long decon shower area divided into 2 separate shower stalls in each line, and a 4/1.22 M redress privacy area in 5 lines prior to exiting. Shutoffs and quick disconnects supplied with every group of shower heads and trigger gun. As an option -- by configuring the changing areas on both ends as decon showers one can double the capacity as detailed above.

If an optional detergent injector is used then the shower # 1 station can be used for detergent cleansing and the shower # 2 station may be used for rinse.

Wastewater is contained within integral 15/4.57 M wide X 15.5/4.72 M long ground floor and 6"/15 cm berm erected when system is initially inflated (holds 500 gal./2000 liters of waste water before pump-out is required - waste pump recommended, however).

Includes separate "dirty" entry and "clean" full sized exit doors, four (4) center divider curtains to separate all five lines, fifteen (15) 1/4 cross divider curtains, two windows on each side, 2 skylights, 2 - 3/4" (19mm) high pressure 300 psi (20 bar) GHT threaded inlet hoses -- other fittings available as specified, reflective air vents at each end, reflective striping on each end to delineate built in decon pool. All canopy walls are velcro'd to the floor air berms for air lock.

These professional decon systems can be inflated either with high pressure air from an scba/ scuba tank, with an electric inflator, or with compressed air from any available source.

The DAT4099S offers a top center air berm running the entire length of the unit at the roof line and secondary full center length air berms running on either side of the main center berm approx. 18 - 24" off center. FSI offers a total of five 8" - 12" diameter lateral roof support air berms - size of shelter dependent. FSI shelters lead the industry in terms of weight/snow bearing capabilities/strength. Whatever the specification at hand FSI meets and exceeds herein.

Weight approx. 350 pounds/159 Kg. Inflated size is 15/4.57 M wide x 23.5/7.16M long x 9/2.74 M high. 352 sq. ft. (32.7 M²)

Carton size approx. = 136 X 108 X 91 cm (54" X 43" X 36" H)

All units come equipped as standard equipment with an integral ground floor, 4 roll up windows (2 per side), 2 skylights, roll-up, full zip, dirty entry/clean exit doors, 8 HVAC 19"/48 cm dia. air duct inlets/outlets w. tie closures -- 2 each on each end/side, 1 small electrical duct, 2 high pressure and 2 low pressure inflation deflation valves, one air inflation hose w. safety cord, 1 pressure relief valve, 12 metal stakes and ground anchor points, 4 tie down ropes and attaching points, repair kit, manual, shelter sleeve, 2 upper air vents, and hammer. Unit supplied w. no charge redundant features allowing for - hanging undress/redress kits etc. on the inlet and outlet side. Units can attach to a second shelter/shower system.

The FSI model DAT@4070S is a four-line (43.5"/1.1 M X 4 Lines W), 3 or 4-station mass casualty decon shower system which handles four parallel lines of casualties at the same time in three or four sequential stations --- (1) undress, (2) detergent shower # 1 - (3) rinse shower # 2 OR handle 2 personnel in separate showers simultaneously in each lane, (4) redress. This unit deploys in under three minutes, processes four non-ambulatory patients on stretchers or up to 8 ambulatory personnel at a time and/or any combination of the above.

Undress and redress stations are dry (plumbing is possible and optional); shower stations may include 3 showerheads and one hanging coiled 1/2"/13 mm hose line with attached multiple function spray nozzle which thoroughly drenches and decontaminates via a fine water mist. There are a total of 12 multiple function spray nozzle guns and 4 sections of 3 shower heads for a total of 24 shower heads as standard. As an option -- by configuring the changing areas on both ends as decon showers one can double the capacity as detailed above. The unit is configured with a 4/1.22 M undress/privacy area on entrance, a 15/4.6 M long decon shower area divided into 2 separate shower stalls in each line, and a 4/1.22 M redress privacy area prior to exiting. Shutoffs and quick disconnects supplied with every group of shower heads and Trigger Gun. As an option -- by configuring the changing areas on both ends as decon showers one can double the capacity as detailed above.

If an optional detergent injector is used then the shower # 1 station can be used for detergent cleansing and the shower # 2 station may be used for rinse.

Wastewater is contained within integral 14.5/4.42 M wide X 15/4.57 M long ground floor and 6-inch/15 cm berm erected when system is initially inflated (holds approx. 450 gal./1800 liters of waste water before pump-out is required - waste pump recommended, however).

Includes separate "dirty" entry and "clean" full sized exit doors, three (3) center divider curtains to separate all four lines, twelve (12) 1/4 cross divider curtains, two windows on each side, 2 skylights, 2 - 3/4" (19mm) High pressure 300 psi (20 bar) GHT threaded inlet hoses -- other fittings available as specified, reflective air vents at each end, reflective striping on each end to delineate built in decon pool. All canopy walls are velcro'd to the floor air berms for air lock.

These professional decon systems can be inflated either with high pressure air from an scba/ scuba tank, with an electric inflator, or with compressed air from any available source.

The DAT4070S offers a top center air berm running the entire length of the unit at the roof line and secondary full center length air berms running on either side of the main center berm approx. 18 - 24" off center. FSI offers a total of five 8" - 12" diameter lateral roof support air berms - size of shelter dependent. FSI shelters lead the industry in terms of weight/snow bearing capabilities/strength. Whatever the specification at hand FSI meets and exceeds herein.

Wt. approx. 340 pounds/154 Kg. Inflated size is 14.5' wide X 23' long X 9' high. (4.4 X 7 X 2.74M? 330 sq. ft. (30.7 M²)

Carton size approx. = 136 X 108 X 91 cm (54" X 43" X 36" H)

All units come equipped as standard equipment with an integral ground floor, 4 roll up windows (2 per side), 2 skylights, roll-up, full zip, dirty entry/clean exit doors, eight 19"/48 cm dia air duct inlets/outlets w. tie closures -- 2 each in each of the 4 corners, 1 small electrical duct, 2 high pressure and 2 low pressure inflation deflation valves, one air inflation hose w. safety cord, 1 pressure relief valve, 12 metal stakes and ground anchor points, four tie down ropes, repair kit, manual, shelter sleeve, 2 upper air vents, and hammer. Unit supplied w. no charge redundant features allowing for - hanging undress/redress kits etc. on the inlet and outlet side. Units can attach to a second shelter/shower system.

The FSI DAT@3060S is a three-line wide (4' 5" 4' - 1.2 M, 1.5 M, 1.2 M), 3 or 4 - station Mass Casualty Decon Shower System which handles three parallel lines of casualties at the same time in three or four sequential stations --- (1) undress, (2) detergent shower # 1 - (3) rinse shower # 2 OR handle 2 personnel in separate showers simultaneously in each lane, (4) redress. This unit deploys in under two minutes, and processes up to six ambulatory persons at a time or 3 non-ambulatory persons on stretchers simultaneously -- or any combination.

Undress and redress stations are dry (plumbing is possible and optional); Four (4) shower stations include 3 showerheads and one hanging coiled 1/2"/13 mm hose line with attached multiple function spray nozzle which thoroughly drenches and decontaminates via a fine water mist. The two (2) middle line shower stations include two hanging coiled 1/2"/13 mm hose lines with attached multiple function spray nozzles. There are a total of 20 water discharge ports as standard. Shutoffs and quick disconnects supplied with every group of shower heads and trigger gun. As an option -- by configuring the changing areas on both ends as decon showers one can double the capacity as detailed above.

If an optional detergent injector is used then the shower # 1 station can be used for detergent cleansing and the shower # 2 station may be used for rinse.

Wastewater is contained within integral 13' W (3.96 M) X 12' L (3.65 M) ground floor and 6"/15 cm berm erected when system is initially inflated (holds 300 gallons/1200 liters of waste water before pump-out is required).

Includes 3 separate "dirty" entry and "clean" full sized exit man doors on each end, 9 (nine) 1/3rd cross divider curtains, 2 (two) center divider curtains to separate the 3 lines, two windows per side, 2 skylights, 2 - 3/4" (19 mm) GHT threaded inlet hoses -- other fittings available as specified, reflective air vents at each end, reflective striping on each end to delineate built in decon pool. All canopy walls are velcro'd to the floor air berms for air lock.

These professional decon systems can be inflated either with high pressure air from an scba/ scuba tank, with an electric inflator, or with compressed air from any available source.

The DAT3060S offers a top center air berm running the entire length of the unit at the roof line and secondary full center length air berms running on either side of the main center berm approx. 18 - 24" off center. FSI offers a total of five 8" - 12" diameter lateral roof support air berms - size of shelter dependent. FSI shelters lead the industry in terms of weight/snow bearing capabilities/strength. Whatever the specification at hand FSI meets and exceeds herein.

Weight approx. 335 pounds/152 Kg. Inflated size inside to inside is 13' W (3.96 M) x 20' L (6.1 M) x 9' H (2.74 M). For outside to outside dimensions add 16" in Width and Length = 14.33 Ft. W X 21.33 Ft. L = 306 sq. ft. approx.

Carton size approx. = 136 X 108 X 91 cm (54" X 43" X 36" H)

All units come equipped as standard equipment with an integral ground floor, 2 roll up windows per side, 2 skylights, roll-up, full zip, dirty entry/clean exit doors, eight 19"/48 cm dia air duct inlets/outlets w. tie closures -- 2 each on each end/side, 1 small electrical duct, 2 high pressure and 2 low pressure inflation deflation valves, one air inflation hose w. safety cord, 1 pressure relief valve, 10 metal stakes and ground anchor points, repair kit, manual, shelter sleeve, 2 upper air vents, and hammer. Unit supplied w. no charge redundant features allowing for - hanging undress/redress kits etc. on the inlet and outlet side. Units can attach to a second shelter/shower system.

The FSI model DAT@3535S is a two-line wide (5' W, 5' W/1.5, 1.5M), 4 station, mass casualty decon shower system which handles two parallel lines of casualties at the same time in four sequential stations --- (1) undress 4/1.2M section, 4/1.2M section, (3) rinse shower in a 7/2.1M section, (4) redress 4/1.2M section. This unit deploys in under two minutes, and processes 2 or 4 ambulatory personnel at a time, and/or 2 non-ambulatory personnel at one time or any combination.

Undress and redress stations are dry (plumbing is possible and optional); each of the four shower stations include 3 showerheads and one hanging coiled 1/2"/13 mm hose line with attached multiple function spray nozzle which thoroughly drenches and decontaminates via a fine water mist. There are a total of 4 multiple function spray nozzle guns and 4 sections of 3 shower heads for a total of 16 water discharge ports as standard. Shutoffs and quick disconnects supplied with every group of shower heads and trigger gun. As an option -- by configuring the changing areas on both ends as decon showers one can double the capacity as detailed above.

Wastewater is contained within integral ground floor and 6" (15 cm) high water berm when system is initially inflated (holds approx. 200 gallons/800 liters of waste water before pump-out is required).

Includes separate "dirty" entry and "clean" full sized exit doors, center divider curtain to separate lines 1 and 2, 6 1/4 cross divider curtains, 2 - 3/4" (98mm) High pressure 300 psi. (20 bar) GHT threaded inlet hoses -- other fittings available as specified, reflective air vents at each end, reflective striping on each end to delineate built in decon pool. All canopy walls are velcro'd to the floor air berms for air lock.

These professional decon systems can be inflated either with high pressure air from an scba/ scuba tank, with an electric inflator, or with compressed air from any available source.

Weight approx. 230 pounds (104 kg) Inflated size is 10' W x 15' L x 9' H. (3.04 M X 4.6 M X 2.73 M)

Carton size approx. = 136 X 108 X 91 cm (54" X 43" X 36" H) NSN #: 4230-01-567-5564

All units come equipped as standard equipment with an integral ground floor, 4 roll up windows (2 on each side), 2 skylights, roll-up, full zip, dirty entry/clean exit doors, eight 19"/48 cm dia air duct inlets/outlets w. tie closures -- 2 each on each end/side, 1 small electrical duct, 1 high pressure and 1 low pressure inflation deflation valves one air inflation hose w. safety cord, 1 pressure relief valve, metal stakes and ground anchor points, repair kit, manual, shelter sleeve, 2 upper air vents, and hammer. Unit supplied w. no charge redundant features allowing for - hanging undress/redress kits etc. on the inlet and outlet side. Units can attach to a second shelter/shower system.



DECON SHOWERS DETAILED SPECIFICATIONS

FSI

The **DAT@3030S** is a 2 (two) line system designed to handle 2 non-ambulatory personnel on stretchers with attendants working on either side of the victim inside the unit, or the DAT3030S can handle 1 non-ambulatory and two ambulatory, or 4 ambulatory personnel at any one time.

The DAT@3030S comes equipped as standard equipment with an integrally attached ground floor that will hold up to 200 gallons of water (with an 8"/20 cm berm approx.) before requiring pump out, 2 roll up windows – one on each side, 2 skylights, full closure slip in and out dirty entry/clean exit doors, eight 19" /48 cm dia HVAC/Clothes inlets/outlets with tie closures – 2 each on each end/side, 1 small electrical duct, 1 (one) center divider curtain, 2 (two) 1/2 cross divider curtains, 1 ea. high pressure and low pressure inflation/deflation valve, one air inflation hose w. safety cord, 1 pressure relief valve, 4 metal stakes and ground anchor points, tie down ropes and 4 D-rings to tie off to, repair kit, manual, shelter sleeve, 2 upper air vents, and a hammer. All canopy walls are velcro'd to the floor air berms for air lock, and reflective striping is found on the upper air vents above doors and on entry and exit integral shower stall air berms. Units can attach to a second shower or FSI Shelter. Simply inflate the unit - plug into a water supply and commence decon in 1 - 2 minutes.

The DAT@ 3030S also comes complete with a qty. of 12 spray nozzle heads and qty. of 4 (four) 5/1.5 M lengths of coiled 1/2"/13 mm hose with attached multiple function spray guns with shutoffs and quick disconnects offering spray patterns and flows meant to gently yet thoroughly drench and decon victims. Flows per shower head and per spray gun = approx. 1 gpm/4 lpm optimum and dependent on water volumes available.

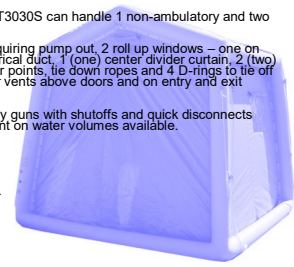
DAT@3030S Approx. 10' W X 10' L X 9' H (3.05 X 3.05 X 2.73 M), Approx. 100 sq. Ft. (9.3M²) 139 lbs. (63 Kg) Carton size approx. = 131 X 108 X 68 cm (52" L X 43" W X 27" H)

As an option -- one can double the capacity if required.

Simply inflate the unit and plug into a water supply - unit is offered with 2 - 3/4" (19mm) high pressure 300 psi (20 bar) GHT threaded inlet hoses – other fittings available as specified.

Comes complete with electric inflator/deflator, and high pressure scba fitting.

Unit supplied w. no charge redundant features allowing for - hanging undress/redress kits etc. on the inlet and outlet side and - doubling of showering capability in the future.



The **FSI DAT@2525S** is a one - line wide 7' W X 13' L X 8' H (2.13 X 3.95 X 2.43 M), 3 station - 4'L, 5'L, 4'L (1.2 M, 1.50 M, 1.2 M) Mass Casualty Decon Shower System which handles a single line of ambulatory casualties in three sequential stations -- (1) undress, (2) shower 3) redress. This unit deploys in under two minutes, and processes three ambulatory personnel at a time (one in each stage of the unit).

Undress and redress stations are dry (plumbing is possible and optional); the middle shower station includes 7 shower heads (2 sections of 3 shower heads and one overhead shower head) and 2 hanging coiled 1/2"/13 mm hose lines with attached multiple function trigger guns which thoroughly drench and decontaminate via a fine water mist for a total of 9 shower heads as standard. Shutoffs and quick disconnects supplied with every group of shower heads and trigger gun. Flows per shower head and per spray gun = approx. 1 gpm/4 lpm optimum and dependent on water volumes available. As an option - by configuring the changing areas on both ends as Decon showers one can double the capacity as detailed above.

Wastewater is contained within integral ground floor and 6"/15 cm berm erected when system is initially inflated (holds approx. 80 gallons - 320 liters - of waste water before pump-out is required).

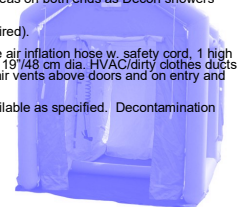
Includes full closure slip in and out dirty entry/clean exit doors on each end, 2 - 1/2 cross divider curtains, two roll up windows (one on each side), 2 skylights, 1 air inflation/deflation valve, one air inflation hose w. safety cord, 1 high pressure valve and on high pressure relief valve, 6 metal stakes and ground anchor points, tie down ropes and 4 D-rings to tie off to, repair kit, manual, shelter sleeve, 2 upper air vents, eight 19"/48 cm dia. HVAC/dirty clothes ducts with tie closures - 2 each on each end/side, 1 small electrical duct and hanging. All canopy walls are velcro'd to the floor air berms for air lock, and reflective striping is found on the upper air vents above doors and on entry and exit integral shower stall air berms. Units can attach to a second shower or FSI Shelter.

Simply inflate the unit and plug into a water supply. DAT@2525S offered with integral ground floor, 1 - 3/4" (19mm) high pressure 300 psi (20 bar) GHT threaded inlet hose - other fittings available as specified. Decontamination can commence in 1 - 2 minutes.

Comes complete with electric inflator/deflator, and high pressure scba fitting.

Unit supplied w. no charge redundant features allowing for - hanging undress/redress kits etc. on the inlet and outlet side and - doubling of showering capability in the future.

DAT@2525S Approx. 9'1" sq. Ft. (8.5M²) 180 lbs. (81 Kg)
Carton size approx. = 121 X 108 X 75 cm (48" L X 43" W X 30" H)



The **DAT@2020S** comes equipped as standard equipment with an integrally attached ground floor that will hold up to 100 gallons (400 liters) of water (with an 8"/20 cm berm approx.) before requiring pump out, 2 roll up windows - one on each side, 2 skylights, full closure slip in and out dirty entry/clean exit doors on each end, 1 air inflation/deflation valve, one high pressure air fill valve and air inflation hose w. safety cord, 1 pressure relief valve, 4 metal stakes and ground anchor points, one 19"/48 cm HVAC Hanging Duct, 1 small electrical duct, Tie Down Ropes and 4 D-rings to tie off to, Repair kit, manual, shelter sleeve, 2 upper air vents, and hammer. All canopy walls are velcro'd to the floor air berms for air lock, and reflective striping is found on the upper air vents above doors and on entry and exit air berms. Units can attach to a 2 - shower/FSI Shelter.

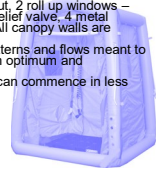
The DAT@2020S also comes complete with a qty. of 7 spray nozzle heads (one overhead) and a single 5' (150 cm) length of coiled 1/2"/13 mm hose with an attached multiple function spray gun with spray patterns and flows meant to gently yet thoroughly drench and decon victims. Shutoffs and quick disconnects supplied with every group of shower heads and trigger gun. Flows per shower head and per spray gun = approx. 1 gpm/4 lpm optimum and dependent on water volumes available.

Simply inflate the unit and plug into a water supply. DAT@2020S offered with 1 - 3/4" (19mm) high pressure 300 psi (20 bar) GHT threaded inlet hose - other fittings available as specified. Decontamination can commence in less than 1 minute.

Comes complete with electric inflator/deflator, stakes, repair kit and high pressure SCBA fitting.

Unit supplied w. no charge redundant features allowing for - hanging undress/redress kits etc. on the inlet and outlet side and - doubling of showering capability in the future.

DAT@2020S Approx. 7' W X 7' L X 8' H (2.13 M X 2.13 M X 2.43 M), 50 sq. Ft. (4.65M²), 90 lbs. (40 Kg) Carton size approx. = 134 X 73 X 48 cm (53" L X 29" W X 19" H)



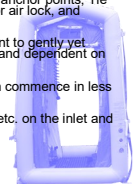
The **DAT@1010S** comes equipped as standard equipment with an integrally attached ground floor that will hold up to 50 gallons (200 liters) of water (with an 8"/20cm berm approx.) before requiring pump out, 2 roll up windows - one on each side, 2 skylights, full closure slip in and out dirty entry/clean exit doors on each end, 1 air inflation/deflation valve, one high pressure air fill valve and air inflation hose w. safety cord, 1 pressure relief valve, 4 metal stakes and ground anchor points, Tie Down Ropes and 4 D-rings to tie off to, Repair kit, manual, shelter sleeve, 2 upper air vents, one 19"/48 cm HVAC duct, 1 small electrical duct, and hammer. All canopy walls are velcro'd to the floor air berms for air lock, and reflective striping is found on the upper air vents above doors and on entry and exit air berms. Units can attach to a second shower or FSI Shelter.

The DAT@1010S also comes complete with a qty. of 7 spray nozzle heads and a single 5' (1.5M) length of coiled 1/2" (13mm) hose with an attached multiple function spray gun with spray patterns and flows meant to gently yet thoroughly drench and decon victims. Shutoffs and quick disconnects supplied with every group of shower heads and trigger gun. Flows per shower head and per spray gun = approx. 1 gpm (4 lpm) optimum and dependent on water volumes available.

Simply inflate the unit and plug into a water supply. DAT@1010S offered with 1 - 3/4" (19mm) High pressure 300 psi (20 bar) GHT threaded inlet hose - other fittings available as specified. Decontamination can commence in less than 1 minute.

Comes complete with electric inflator/deflator, stakes, 1 HVAC hanging duct, repair kit and high pressure SCBA fitting. Unit supplied w. no charge redundant features allowing for - hanging undress/redress kits etc. on the inlet and outlet side and - doubling of showering capability in the future.

DAT@1010S Approx. 3.5' W X 3.5' L X 8' H (1 X 1 X 2.45M), 12 sq. Ft. (1.1M²), 65 lbs. (29 Kg) Carton size approx. = 70 X 63 X 48 cm (28" L X 25" W X 19" H)



FSI® DAT® SERIES PNEUMATIC SHELTER SYSTEMS GENERAL SPECIFICATIONS

Frame / All Shower Pools: Heavy Duty 1100 Dtex* polyester coated w. plastomer on both sides, UV/Chemical resistant, quadruple overlapped and glued.

Technical Data: Air pressure internally once inflated = 4.3 psi (0.3 bar) USA Federal Standard FS # 191 5041/5102/5134/5970 and DIN EN ISO 2060/1409-2/2286-1 AND DIN 53354/53363/53357/53361 Test method structural test results. * Total Weight (g/m²) - 1055 Thickness (mm) - 0.90 Cut strip tensile strength (lbs. /in.) - Warp = 440 - Weft = 380 Elongation (%) - Warp = 27 - Weft = 30 Tongue tear (lbs.) - Warp = 30 - Weft = 35 Adhesion (lbs. /in.) - Warp = 21 - Weft = 21 Density = 28 X 26. Meets NFPA 701 and DIN4102-B1, M-2. *Production lot runs can result in variances and all results are approx.

Canopy: Heavy duty 100% nylon twill (3/5) w. PU white pigment inner coating, ABT. 0 23mm X 57/58. Wt. AB1.230GR/Sq. M - UV/chemical resistant/fire retardant - Rated Ultra Violet Protection (UPF) of 50+ where ASTM D6603 states a UPF of 40+ is rated Excellent; and water repellent w. a hydrostatic resistance of 250 psi + - Anti fungus/Mildew resistant to meet and exceed US Fed. Test MIL.STD.810E 508 and ASTM G 21-96 (2002); Water Resistance (ISO 811 (E) 1981, hydrostatic pressure test at water pressure 600 m/min. = 5540; Tensile Strength (ISO 13934-2: 1999 C.R.E. Method in N) - warp = 1300 - weft = 1500; Tear Strength (ISO 13937-1:2000, Pendulum method) - Warp = 25 Weft = 43; Burst Strength (ASTM 0 3787:2001, C.R.E. Ball bursting method N) = 1620; Seam Strength (ISO 13935-2: 1998, Grab method N) Sewing threads fail at 710; Fire resistance meets and exceeds CPAI 84 SECTION 5 1995, US Fed. Test CFR.1610, meets NFPA701 Flammability Test method 1 (2004), NFPA 702 w. 'A' burn scale rating, Japan JIS A 1322: 1966, Method A. All seams double stitched and coated both sides.

Floor: 1,000 dtex 0.58mm Nylon coated w. PU, tensile strength: 2545N/2360, Tear Strength: 106/102N, weight: 660 grams per sq. mm 60" W.

Standard color is 'FSI Blue®'. Green, White, Red and Tan/Sand also available as standard. Other colors offered P.O.A.

**All FSI Portable Hazmat Decon Shower Systems are in conformance with the performance requirements of the new ANSI # 113 American National Standard for Fixed and Portable Decontamination Shower Units.

*** All FSI Showers utilize Potable Water approved Hose systems. These hoses are manufactured with Texin 985U (formerly DP7-1077) or Texin 1209 which are approved by NSF. This polyurethane is approved for "Potable Water" use by NSF International (NSF Standard 61 - Drinking Water System Components - Health Effects).



FSI NORTH AMERICA®
SAFETY THROUGH TECHNOLOGY
A Division of Fire Safety International
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ACCESSORIES INCLUDED WITH EACH '-SYS' SHOWER SYSTEM

	PART NUMBER	DESCRIPTION	DAT 6000S-SYS	DAT 6000S-3L-SYS	DAT 4099S-SYS	DAT 4070S-SYS	DAT 3060S-SYS	DAT 3535S-SYS	DAT 3030S-SYS	DAT 2525S-SYS	DAT 2020S-SYS	DAT 1010S-SYS
	FSI HEAT 200A	FSI Heat 200A Multi-Fuel Water Heater is a wheeled cart like unit - 440,000 btu, 14 gpm/56 LPM total flow rate, multi fuel capable (diesel # 1, 2, JP4, JP8, home heat oil, kerosene), portable water heater.	1	1	2	1	1	1	1	0	0	0
	F-ECC150WH	A portable wheeled, 150,000+ BTU propane powered unit (propane tank not included), 65 LBS./30Kg w. cart. 10" D X 16" W X 40" H (25 X 40 X 101 cm), approx.. Approx. 6.0 gpm/360 gallons per hour (24 lpm/1,440 lph) of heated water FSI does not recommend for use with other than the smaller DAT® series showers such as the DAT®1010S/2020S/2525S/2626S	0	0	0	0	0	0	0	1	1	1
	FSI HEAT 201	Dema Style Detergent Inducer w. filter for use with FSI Heat 200/200A or other water heaters .2 - 2% induction %	1	1	2	1	1	1	1	1	1	1
	F-HSP	4 gallon poly tank, decontamination hand sprayer with 48" hose and 18" wand w. brass adjustable cone nozzle -- 40-90 psi operating pressure	1	1	1	1	1	1	1	1	1	1
	F-GH	FSI LayFlat Hose - 3/4" Soft sided Garden Hose X 50' per length 300 psi LayFlat hose, coupled 3/4" GHT	2	2	3	2	2	2	2	1	0	0
	F-GH503510	FSI LayFlat Hose - 3/4" Soft Sided Hose X one L of 50', one L of 35' and one L of 10' per length coupled 3/4" GHT	1	1	1	1	1	1	1	1	1	1
	F-RS	Conveyor roller system Adj. from 2' - 9'	1	0	0	0	0	1	1	1	0	0
	F-RS12	Conveyor roller system Adj. from 3' - 12'	0	1	0	0	1	0	0	0	0	0
	F-RS16	Conveyor roller system Adj. from 4'3"-16'9"	0	0	2	2	0	0	0	0	0	0
	F-MX1	Spine Board/Transfer Board weighs 16 lbs., and measures 72" x 16" x 1 3/4 "	1	1	2	2	1	1	1	1	0	0
	F-WSP33AA	1/4 HP electric submersible WASTE PUMP, auto start, plastic case, thermal auto reset 30 gpm	1	1	1	1	1	1	1	1	1	1
	F-TDMSPC	Haz mat Decon Elevation Grid, 3' X 2' X 2 7/8" H	36	50	30	24	20	9	8	4	4	1
	F-MMU156	Multi Manifold brass, with 1.5" female swivel NH inlet X (6) 3/4" GHT male outlets w/ shutoffs.. fabricated of sch. 40 2 1/2" pipe, w/ends of .19" 5062 alum..ball valves of brass	1	1	1	1	1	1	1	0	0	0
	F-HD150BT	Heavy Duty 150 Gallon Bladder Tank	0	0	0	0	0	0	0	0	1	1
	F-HD300BT	Heavy Duty 300 Gallon Bladder Tank	1	0	1	0	0	1	1	1	0	0
	F-HD600BT	Heavy Duty 600 Gallon Bladder Tank	0	1	1	1	1	0	0	0	0	0
	F-GS1	Ground Tarp 10' X 10'	0	0	0	0	0	0	0	0	1	1
	F-GS3	Ground Tarp 12' X 20'	0	0	0	0	0	0	0	1	0	0
	F-GS4	Ground Tarp 14' X 24'	0	0	1	1	1	1	1	0	0	0
	F-GS1620	Ground Tarp 16' X 20'	2	2	0	0	0	0	0	0	0	0
	F-1225-0500-STL*	25 Watt flourescent stringable lighting W/O switch.	2	6	5	4	3	2	2	1	1	1
	F-SFLL-1M**	FSI Foldable LED Lighting. 1 Meter strip.	0	0	0	0	0	2	2	1	1	1
	F-SFLL-5M**	FSI Foldable LED Lighting. 5 Meter strip.	2	2	2	2	1	0	0	0	0	0
	F-SFLLPS-12V**	FSI Foldable LED Lighting Power Supply.	2	2	2	2	1	2	2	1	1	1

*EACH DAT ___-SYS SYSTEM INCLUDES LIGHTING IN THE QUANTITIES AS ABOVE.

**EACH DAT ___-SYS-LED SYSTEM INCLUDES LIGHTING/POWER SUPPLY IN THE QUANTITIES AS ABOVE.

OTHER SYSTEMS AVAILABLE AND PRICED P.O.A.

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