

INSTRUCTION MANUAL

FSI® DAT® SERIES SHELTERS / SHOWERS
& QE SERIES® SHELTERS / SHOWERS



ANSI / ISEA 113

All FSI® DAT® & “QE Series”® showers comply with ANSI/ISEA 113: American National Standard for Fixed and Portable Decontamination Shower Units.

NFPA 1851

In accordance with NFPA 1851: Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting – FSI showers are ideal for firefighter wash-down / decon immediately after exiting the fire scene and prior to removal of any PPE.

OSHA HAZWOPER

Compatible with decontamination procedures under OSHA 29 CFR 1910.120: Hazardous Waste Operations and Emergency Response (HAZWOPER).

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SCAN TO VISIT

FSI® DECON SHOWERS AND SHELTERS
OPERATION / MAINTENANCE MANUAL

Please read this instruction manual carefully
before assembling your FSI® decon shower / shelter.

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COMPLIANCE NOTICE

All FSI® DAT® Series and DAT® QE Series® portable hazmat decontamination shower systems conform to ANSI/ISEA 113: American National Standard for Fixed and Portable Decontamination Shower Units, are produced in accordance with NFPA 1851: Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting, and are compatible with decontamination procedures under OSHA 29 CFR 1910.120: Hazardous Waste Operations and Emergency Response (HAZWOPER).

INTRODUCTION

Thank you for purchasing the FSI® DAT® series portable inflatable / framed shelter / shower unit. They have been designed for rapid deployment and ease of use in emergency situations, offering a top quality multi-use compact inflatable structure. FSI® showers / shelters are offered as complete -SYS Systems, with multiple optional items available from FSI including HVAC, water heaters and cooling systems, elevation grids, bladder tanks, waste pumps, air filtration units, lights, conveyors, backboards, etc. FSI® products provide reliable operation in demanding conditions and situations when used and maintained correctly.

IMPORTANT NOTES

This operation manual should be thoroughly reviewed and understood prior to initial use of the unit.

If you are new to FSI® Shelters / Decon Showers, for your own comfort and safety, we strongly recommend you obtain handling and operation experience before assuming command of the unit. Your FSI® authorized distributor will be pleased to advise and assist you.

PLEASE KEEP THIS MANUAL IN A SECURE PLACE AND KEEP IT WITH THE UNIT PERMANENTLY.

If there are any questions or concerns, please contact FSI® prior to operation.

Please note FSI® cannot be held responsible for any damage and/or equipment malfunction, resulting from the lack of reviewing and following instruction manual instructions, and/or from lack / absence of proper care and maintenance.

FSI® operates a policy of continual product development, and as such both the product and this manual may be subject to technical alterations without notice.

This manual should be made available to the operating personnel for reference purposes in the event of an operating / technical query.

On scene coordinators are responsible at all times for the correct and proper use, movement, carry / lift weight per person, cleaning & use in various dangerous environments. FSI® merely supplies set-up, care, use & maintenance guidelines.

The DAT® Series Inflatable structures get their form, strength and stability by means of inflation with air. The tent is designed as a temporary shower / shelter for multi purpose uses.



ATTENTION

This warning symbol appears in the operating manual next to operating and safety instructions dealing with rules, regulations and instructions for the proper operation of your FSI® unit.

SAFETY INSTRUCTIONS

This operation manual should be reviewed and thoroughly understood prior use of the unit.

FSI® Pneumatic showers / shelters require a compressed air / electric inflator / deflator source to inflate them. Operators should be familiar with the use of the air source utilized, and aware of any risks associated with it.

The weight of the FSI® units vary dependent on the model purchased. The units are supplied in a carry sleeve / bag* fitted with handles to permit two or more people to carry the unit. The carry sleeve / bag* is not to be dragged – but lifted and carried by the appropriate number of personnel that on-site coordinators may deem appropriate.

When used in a hazmat incident, FSI® units may come in contact with substances ‘hazardous to health’. Should this happen, they should be thoroughly cleaned to prevent contamination of personnel and any possible cross contamination of equipment etc. Operators should be aware of this risk, and wear appropriate personal protection to avoid coming in contact with these substances. On scene coordinators must manage and be completely responsible herein.



ATTENTION

FSI® Showers / Shelters (as of 09/01/02) are fitted with an overpressure valve on the inflatable structure, to prevent the unit from over-inflating and possibly bursting. This valve is fully automatic in operation, and must not be blocked or adjusted in any way. If using compressed air to inflate unit, an operator must stand by at all times and immediately turn off compressed air source when the overpressure valve is activated as noted by the “hissing” sound of escaping air. At all times ensure the high pressure air fill hose is locked to the supplied O/D ring on the air berm with the supplied locking wire.

TEMPERATURE USE GUIDELINES FOR PNEUMATIC DAT® SERIES SHOWERS AND SHELTERS

Hot air expands and cold air compresses — and so the weather impacts the air berms of your DAT® series product in use.

COLD WEATHER USE

Recommended for use in temperatures to $-30\text{ }^{\circ}\text{C}$ ($-22\text{ }^{\circ}\text{F}$)

Fully inflate to the point of the overpressure valve almost being activated (if activated, cease air fill immediately) if being used in extreme cold weather, since the cold air will actually contract inside the berms and the air berms may feel slightly 'soft' to the touch.

WARM WEATHER USE

Recommended for use in temperatures to $+40\text{ }^{\circ}\text{C}$ ($+104\text{ }^{\circ}\text{F}$)

When temperatures during use are to exceed $30\text{ }^{\circ}\text{C}$ ($86\text{ }^{\circ}\text{F}$), be aware hot air expands — and so manually reduce the air pressure in the air berms or allow overpressure valves to activate. As the evening shift arrives in continued use, and air temperature drops, re-inflate the unit as colder air causes internal air pressure to decrease.

AT THE COMMENCEMENT OF EACH SHIFT FSI® STRONGLY ENCOURAGES AND RECOMMENDS THAT THE AIR PRESSURE INTERNALLY BE CHECKED AND ADDRESSED AS ABOVE, AND THAT A COMPLETE SYSTEMS CHECK OCCUR ON ALL ITEMS IN USE WITH THE DAT® SERIES SHOWER OR SHELTER SYSTEM.

When removing FSI® showers / shelters from the carry sleeve / bag, ensure there are no sharp objects or glass on the floor that might tear or puncture the inflatable structure. Avoid dragging the unit over rough surfaces. The use of a tarp / groundsheet is strongly recommended for inexpensive protection and maximum longevity of the floor and berms.



ATTENTION

Operators must always observe the temperature-related guidance above to prevent over-pressurization in heat or soft-berm under-inflation in cold. When in doubt, allow the overpressure valve to relieve excess air automatically.

PRINCIPLES OF OPERATION

FSI® Pneumatic showers / shelters are inflated via the use of a compressed air source / electric inflator / deflator and inflation time is approximately 45 seconds to 5+ minutes (size of unit dependent).

Over-inflation of the structure is designed to be prevented via the inclusion of a pressure relief valve fitted to the unit. If using compressed air to inflate the unit, an operator must stand by at all times and immediately turn off the compressed air source when the overpressure valve is activated as noted by the “hissing” sound of escaping air. At all times ensure the high pressure air fill hose is locked to the supplied O/D ring on the air berm with the supplied locking wire.

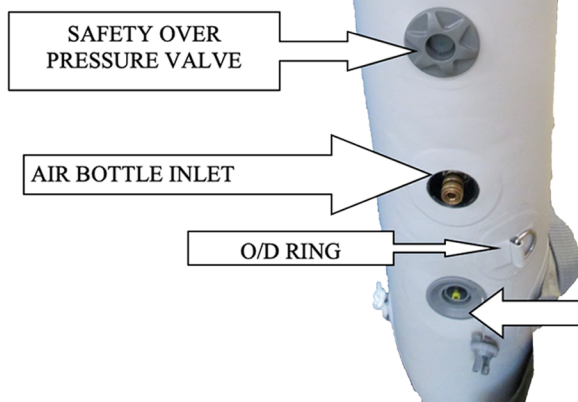
The structure has reinforced air-inflated berms and is usually fitted with two external zipped doors — the first is the entrance door, and the second is the exit door at the other end as determined by on-scene coordinators.

To deflate the unit, an inflation / deflation valve is so equipped to release the air in the structure via a quarter-turn ‘push in’ stem, allowing the FSI® shower / shelter to deflate. Use the supplied inflator / deflator to ‘suck’ all air out of the unit until flat to the naked eye. The unit can then be carefully folded, as it was received, and packed into the carry sleeve / bag supplied for safe transportation and storage.

FSI® SHOWER / SHELTER DIAGRAMS



FSI SHOWER/SHELTER DIAGRAMS



INFLATION

Push in and quarter-turn clockwise to lock the valve open. When the unit is fully inflated, push in and quarter-turn counter-clockwise to allow the valve to pop up and close. Your shower / shelter is now ready for use.

DEFLATION

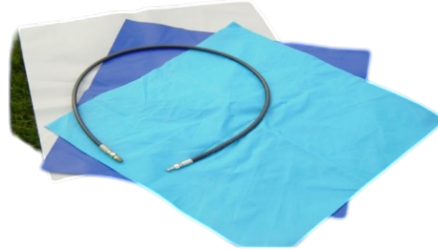
To deflate, push in and quarter-turn clockwise to lock the valve open. Air will rush out and the unit will begin to deflate. Ensure the tie-down ropes are used to assist the unit in returning to the ground by pulling them toward each other, allowing the unit to collapse into its own footprint. Use the deflation end of the electric inflator / deflator to ‘suck’ the remaining air out of the unit until flat to the naked eye. Then push in and quarter-turn counter-clockwise to allow the valve to pop up and close.

FSI® SHOWER / SHELTER PACKING LIST

FSI® showers / shelters consist of the following items:



Shower / shelter in carry sleeve / bag



High pressure air inlet hose & SCBA fitting (fits all known SCBA air cylinders + repair material swatches)



Full instructions for use, repair kit, stakes, tie-down ropes, inflator / deflator (size depends on size of unit), and hammer.

FSI® OPTIONAL ACCESSORIES

FSI® showers / shelters are offered with multiple optional items, with a few examples below:



Air Heaters
F-ZHAF and F-ZHAFD



Waste Water Pump
F-WSP33AA



Elevation Grid
F-TDMSPC



Conveyor Systems
(F-RS shown)



Detergent Injection System
FSI® Heat 201



Hand Sprayer
F-HSP



Water Heater
FSI® Heat 200A



F-GH (50') Hoses
F-GH35 · F-GH5035 · F-GH10
F-GH25 · F-GH5025



F-MX1
(Spine Board / Transfer Board)



HVAC
F-DI35HP0100CM



Manifolds
F-MMU153 · F-MMU253
F-MMU156 · F-MMU256



Stringable Lights
F-125-0500-STL



Heavy Duty Bladder Tanks
F-HD150BT · F-HD300BT
F-HD600BT



Ground Tarps
Assorted sizes



Water Heater
F-ECC150WH

...and more.
See full FSI® price list at
www.fsinorth.com

UNPACKING FSI® SHOWERS / SHELTERS

To unpack FSI® shower / shelter — and if a pneumatic unit, make ready for inflation

Undo the carry bag / sleeve and remove the unit. If no groundsheet or tarp is readily available, the carry sleeve / bag fully flattened out can be used as a partial emergency groundsheet to protect the shower / shelter.

Ensure the surface is flat and free of sharp objects; place the groundsheet / tarp on the ground (FSI® offers as an option), then unroll the FSI® unit either onto the groundsheet or onto the ground carefully.

NOTE! LIFT — Do not drag on ground!

Place the FSI® unit to suit all site and incident requirements, ensuring entry / exit doors are aligned in the right direction. On-scene coordinator must make these decisions.



INFLATING FSI® SHOWERS / SHELTERS FOR USE

Follow all instructions located above the fill valves on every unit **EXACTLY**.

If using an SCBA cylinder and the supplied black-color high pressure fill hose with locking clip and fitting, please review those instructions carefully and follow them exactly.

If using the supplied inflator / deflator, use in the manner shown herein following all instructions located on the berms of the unit.

Allow a steady, clean flow of air to inflate the unit. It will take approx. 45 seconds to 5+ minutes to inflate the unit (size of unit dependent) from an SCBA cylinder, and slightly longer if using a compressor or the electric inflator / deflator. Remove / disconnect inflator / deflator once the unit is fully inflated.

NOTE! Support roof of FSI® shelter as it inflates — help the unit stand. In deflation mode, ensure the tie-down ropes are used to assist the unit in returning to the ground by pulling them toward each other, allowing the unit to collapse into its own footprint.



INFLATION USING HIGH-PRESSURE COMPRESSED AIR

With on-scene coordinator oversight, carefully attach the hose to the SCBA / dive air cylinder and lock the hose to the air-berm D-ring using the supplied locking clip. Then turn on cylinder air **VERY** slowly. Then inflate the unit until the overpressure valve operates — indicated by the sound of escaping air (escaping air can also be easily felt by hand). **IMMEDIATELY** turn off compressed air supply. The overpressure valve will close automatically when excess air has escaped from the unit.

NOTE! Never cover / block the overpressure valve, as the unit may become over-pressurized and fail.

Make the following final checks:

Check that the unit is upright, that all valves are closed, and no leaking is occurring. If, in the unlikely event a leak is discovered, deflate the unit and repair before using. (See instructions for notes on how to repair punctures.)

In the event of windy conditions, always tie off the unit to the ground using the supplied tie-down ropes and stakes, and / or lash to solid objects (e.g., vehicles).



OPERATING FSI® UNIT — WATER INLET PRESSURE GUIDELINES

FSI® shower systems have all been designed to handle a maximum incoming water pressure of approx. 55 psi (3.6 bar). If the water pressure coming into the FSI® shower unit is unknown or will exceed 55 psi — FSI® requires the use of a water pressure reducer (available from FSI®).

**** Inlet Water Pressures in FSI® Decon Shower Systems:** Each and every section of spray nozzle heads and multiple-function trigger guns is equipped with a shut-off valve and a quick-disconnect feature. If you find the inlet water pressure is not capable of feeding all water outlets with sufficient water pressure to provide a proper shower, then shut off all shower heads not currently being used. This will best ensure maximum water pressure is available where it is needed.

ALL FSI® DAT® AND DAT® 'QE SERIES'® DECON SHOWERS COMPLY WITH ANSI/ISEA 113: AMERICAN NATIONAL STANDARD FOR FIXED AND PORTABLE DECONTAMINATION SHOWER UNITS.

FSI® units have been designed for use by personnel with some knowledge or training in decontamination procedures. On-scene coordinators must always determine correct use.

Proceed as follows: Unzip / separate the velcro closure doors at the entrance to the unit. The entrance is normally the location nearest to the inflation / overpressure valves but this must be as determined by the on-scene coordinator.

At night, the relatively translucent construction and reflective striping above the doors and on the berms of the FSI® unit will allow light from external sources to illuminate the interior and clearly show the entry and exit points.

STOWING FSI® SHOWERS / SHELTERS

If using accessories such as air / water heaters, decon showers, etc., disconnect and remove all showers, heating, air-cooling units, lights, elevation grids, and so forth from inside the shower / shelter or in close proximity to it.

Wipe up any residual water inside the unit, and make sure the interior is completely dry.

To deflate the unit, make sure the entrance and exit doors are unzipped and rolled up.

Ideally place one person or more at each end of the FSI® shelter; then open the deflation / dump valve.

The FSI® shower / shelter will rapidly deflate (usually within 1 minute or so). As the unit collapses, each person should pull inwards on the end pillars, so the roof collapses neatly on top of the lower part of the unit.

Ideally fold the shower / shelter back up exactly as received. Failing that, fold the shower / shelter in three or more sections starting at the end furthest from the deflation / dump valve. This will further squeeze air from the unit.

HINT: It is best to use the supplied electric inflator / deflator to fully remove air from the unit, but not essential.

Place the carry bag / sleeve over the top of the folded unit, then roll the unit over so the bag / sleeve is now the right side up. Alternately, fold the unit so the final melon-roll fold places the unit largely in the fully laid-out carry bag / sleeve. Center the unit in the carry bag / sleeve and pull / cinch straps tightly.

THE FSI® UNIT IS NOW READY FOR TRANSPORT AND STORAGE.



DISASSEMBLY / STORAGE / MAINTENANCE / CLEANING

MAINTENANCE

All equipment should be stored dry, with no water left in / on the unit. It is important to dry off the unit completely before final packing into the carry bag / sleeve. This may not be feasible immediately after use, and might be better done back at the storage site.

While all canopy fabrics have been heavily impregnated with mildew-resistant antibacterial agents that meet and exceed MIL-STD-810E, Method 508 (Fungus), please note that storing fabric shelters / showers 'wet' — with either water and / or detergent residue on the canopies — may result in the growth of surface mold and an accompanying mold odor on the surface of the canopies. The canopies themselves will not rot or mildew, but the growth of surface mildew / mold in / on the residue is a given if stored 'wet'.

- Before storage, check that all parts are present, and replace any missing items at the earliest opportunity.
- Inflate at regular intervals to allow air through the unit, and to check there are no leaks in the structure.
- Should a minor leak or rip be discovered, repair it using the repair kit provided, or return to FSI® if significant damage has occurred. Instructions on undertaking minor repairs are shown in section 10 of the manual.
- For major repairs, contact either FSI® or your local Agent / Representative. It is possible the entire unit may need to be returned to FSI®. On reporting the nature of the damage, we will be able to advise the best course of action.
- After checking, ensure FSI® shelter is dry before repacking and storing.

DISASSEMBLY

- Remove all loose items such as equipment and furniture and thoroughly clean the floor.
- Remove all stakes and fittings and accessories.
- Push and turn the center valve core 1/4 clockwise. The air will come out automatically.
- Deflate.
- Depress the tubing manually to remove remaining air.

FOLDING

The object is to observe the folding sequence when the unit is new and first unpacked to ensure the unit can be returned to the carry bag / sleeve.

- Ensure all air has been evacuated from the frame.
- Close the valve.
- Fold as instructed in the video at right.
- Roll from end.
- Put it in the supplied carry bag / sleeve and fasten it.

FOLDING & STORAGE VIDEO



Scan with your phone camera to watch the step-by-step folding & storage instruction video.

STORAGE

Allow your air tent to dry thoroughly in the shade or inside before storing — never in bright sunlight. Store your air tent, while drying, in a cool, flat and dry place (in as close to room-temperature conditions as possible) with some air in the air berms if at all possible. If the above is not possible, empty the air tent of air completely and roll it up loosely to allow for drying.

CLEANING

The surface of the unit should be cleaned with a solution of mild soap and fresh water after each use. To avoid abrasion and wear, be sure that all the sand, small rocks, oil and dirt have been removed from the air-berm surfaces, with attention paid to the floor areas nearest the vertical air berms.

**** WARNING: Never use petrol, gasoline, or solvent for cleaning.**

TROUBLESHOOTING / REPAIRS

Your FSI® shower / shelter should provide a long and trouble-free operational life span. It has been designed such that no spares need be kept other than consumable items and accessories you may elect to purchase. However, under certain circumstances the potential exists for issues to occur; and their identification and possible rectification are listed below:

INFLATABLE BERM LEAKS

Identified by the FSI® unit collapsing with time. A “hissing” sound might be heard if the leak is severe.

MAINTENANCE

Clean your unit with fresh water and a mild detergent soap.

When you intend to store the unit for a long time without use, we would recommend you establish a protocol to inflate it monthly and check if it all is as originally left.

TO FIND A LEAK

1. Listen for a “hissing” sound of escaping air.
 2. Check likely sources of leaks, such as all valves. Check the overpressure valve and both high- and low-pressure air inflation valves for the sound of escaping air.
 3. Remove the closure cap and check that the low-pressure inflation / deflation valve is closed and not leaking.
 4. If the valves are OK, check the inflatable structure for obvious signs of damage.
 5. If the leak cannot be traced, mix a solution of soap and water. Using a brush, paint the solution onto welding joints, around valves, etc., until the solution forms bubbles. This is the source of the leak.
-

IF HIGH- AND / OR LOW-PRESSURE INFLATION / DEFLATION VALVE LEAKS

The valve may have dirt or dust contamination, preventing the valve spring from closing the valve completely. Carefully LIFT / PULL the center of the valve with hand or small blunt object, and clean with high-pressure compressed air.

IF OVERPRESSURE VALVE LEAKS

The valve may have dirt or dust contamination, preventing the valve spring from closing the valve completely. Carefully LIFT the center of the valve with a small blunt object, and clean with high-pressure compressed air.

TO REPAIR A LEAK

Once the leak has been found, deflate the unit fully, and lay the unit out flat on the ground.

Ensure the area around the leak is dry and free of dirt or contaminants.

Clean the area around the leak, or LIGHTLY rub the area with fine abrasive paper.

Cut a patch approximately 25mm (1") larger, on all four sides, than the size of the hole. Spare material is included in the repair kit provided with every shower / shelter unit.

Apply adhesive from the tube provided to BOTH surfaces, ensuring all areas are adequately covered with glue. Leave for 2–3 minutes until adhesive is “tacky” to the touch.

IMPORTANT: With each use of your FSI® shelter or shower, or at least 2× per year, also check the glue in the tube provided in the repair kit. This small amount of glue can cure / dry out very quickly and may need to be replaced periodically as a standard operating procedure. Purchase orders may be placed for part #F-STMEKG.

Place the patch over the hole, and apply pressure or heavy weight to both surfaces. Maintain pressure for several minutes, until the adhesive is dry.

Once dry, inflate the unit and check for leaks. If at all possible, allow all patch work to cure for at least 24 hours before fully re-inflating and using the unit.



SMALL TEARS, CUTS AND PUNCTURE REPAIRS DESCRIPTION

Use the enclosed repair kit for small punctures. Clean the fabric around the area to be repaired using M.E.K. or acetone, then re-clean as before. Apply a coat of glue to the damaged area and to the patch material, allowing it to dry for 2–3 minutes. It is strongly recommended that all patch work be allowed to cure at least 24 hours before re-inflating the unit.

LARGE REPAIRS OF BERMS AND SEAMS DESCRIPTION

It is recommended that the air shelter / shower be returned to FSI® or an authorized FSI® dealer for all large repairs.

FSI® DAT® SERIES PNEUMATIC SHELTERS

All shelters have full privacy zipper closure and full screen zipper closure slip-in and slip-out dirty entry / clean exit doors, high-pressure and low-pressure inflation / deflation valves and pressure relief valves based on size of unit as detailed below, one high-pressure compressed-air inflation hose with universal SCBA adapter w. safety cord, tie-down ropes and D-rings to tie off to, 2 upper air vents, repair kit, manual, shelter carry sleeve / bag, 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 entry and exit doors. Units can attach to a second FSI® shelter or shower, if so ordered and specified. Simply inflate the unit and commence use in approx. 1 – 15 minutes (size of shelter dependent).

Every shelter with a width of over 11 ft. – regardless of length and overall size – 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).

Every FSI® DAT® series shelter comes complete with electric inflator / deflator with hands-free locking inflation adapter, and a high-pressure compressed-air fill hose with universal high-pressure SCBA fitting.

All units supplied with redundant features: Velcro closure loops to hang undress / redress kits etc. on the inlet and outlet side; or for use as handles in the event a victim is in such need.

All DAT® series shelters available with cross and center divider curtains, side doors, extra windows, skylights, HVAC / clothing ducts with ties, etc. as per published FSI® literature / pricing / specs.

Multiple optional accessories available – inclusive of air heaters, air coolers, elevation grids, waste-water pumps, etc. Visit www.fsinorth.com.

FSI® VALVE QUANTITY BY UNIT TYPE

PART NUMBER	INFLATE / DEFLATE VALVE	RELIEF VALVE	HIGH PRESSURE VALVE *
SHOWERS			
DAT*1010S · DAT*2020S · DAT*3030S · DAT*2525S	1	1	1
DAT*3535S · DAT*3060S · DAT*4070S · DAT*4099S	2	1	2
SHELTERS / ISOLATION SHELTERS / FIELD HOSPITAL SHELTERS OF SAME SIZE			
DAT*3030 · DAT*3015	1	1	1
DAT*3060 · DAT*3370 · DAT*4070 · DAT*5672	2	1	2
DAT*6000 · DAT*6012	2	2	2
DAT*7500	3	3	3

* FSI®-supplied high pressure valve to be filled with compressed air using only FSI®-supplied high pressure air fill hose with locking connector and universal SCBA adapter.

SHELTER SPECIFICATIONS

FSI PART NUMBER	APPROX. SIZE	SQ. FT.	SIDE WINDOWS	SKYLIGHT WINDOWS	HVAC / CLOTHES INLET-OUTLETS W. TIE CLOSURES	STAKES	TIE-DOWN ROPES	APPROX. AIR VOLUME	APPROX. ROOF LOAD	# BEDS PER UNIT	APPROX. UNIT WEIGHT	CARTON SIZE	APPROX. SHIP WT.
DAT1530	10' W x 5' L x 9' H	50	2 (1 ea. side)	2	1	6	4	30 cu.	500 lbs	1	68 lbs	54" L x 31" W x 31" H	143 lbs
DAT2020	7' W x 7' L x 8' H	50	2 (1 ea. side)	2	1	4	4	30 cu.	500 lbs	N/A	60 lbs	54" L x 31" W x 31" H	135 lbs
DAT3030	10' W x 17' L x 9' H	100	2 (1 ea. side)	2	4 (2 ea. opp. sides)	10 (6)	4	60 cu.	1,000 lbs	2	130 lbs	54" L x 31" W x 31" H	205 lbs
DAT3015	10' W x 15' L x 9' H	150	2 (1 ea. side)	2	4 (2 ea. opp. sides)	10 (8)	4	90 cu.	1,000 lbs	4	200 lbs	54" L x 31" W x 31" H	275 lbs
DAT3370	13' W x 17' L x 9' H	221	4 (2 ea. side)	2	4 (2 ea. opp. sides)	14 (8)	4	125 cu.	1,800 lbs	6	240 lbs	61" L x 33" W x 33" H	315 lbs
DAT3060	11' W x 31' L x 9' H	230	4 (2 ea. side)	2	4 (2 ea. opp. sides)	14 (10)	4	125 cu.	1,600 lbs	6	243 lbs	61" L x 33" W x 33" H	318 lbs
DAT4070	13' W x 23' L x 9' H	300	4 (2 ea. side)	2	4 (2 ea. opp. sides)	16 (10)	4	165 cu.	2,200 lbs	7	280 lbs	61" L x 33" W x 33" H	355 lbs
DAT4360	17' W x 21' L x 9' H	357	4 (2 ea. side)	2	4 (2 ea. opp. sides)	16	4	175 cu.	2,200 lbs	8	320 lbs	61" L x 33" W x 33" H	395 lbs
DAT6624	20' diam. x 9' H	400	4 (2 ea. side)	2	4 (2 ea. opp. sides)	14	4	195 cu.	2,300 lbs	10	400 lbs	61" L x 33" W x 33" H	475 lbs
DAT5672	18' W x 24' L x 9' H	432	4 (2 ea. side)	2	4 (2 ea. opp. sides)	14	4	195 cu.	2,300 lbs	11	430 lbs	61" L x 33" W x 33" H	505 lbs

Continued on next page →

SHELTER SPECIFICATIONS (CONTINUED)

FSI PART NUMBER	APPROX. SIZE	SQ. FT.	SIDE WINDOWS	SKYLIGHT WINDOWS	HVAC / CLOTHES INLET-OUTLETS W. TIE CLOSURES	STAKES	TIE-DOWN ROPES	APPROX. AIR VOLUME	APPROX. ROOF LOAD	# BEDS PER UNIT	APPROX. UNIT WEIGHT	CARTON SIZE	APPROX. SHIP WT.
DAT*5699	15' W x 30' L x 9' H	450	4 (2 ea. side)	2	4 (2 ea. opp. sides)	14	4	195 cu.	2,300 lbs	11	430 lbs	61" L x 33" W x 33" H	505 lbs
DAT*5700SP	22' W x 23' L x 10' H	506	4 (2 ea. side)	2	4 (2 ea. opp. sides)	14	4	215 cu.	2,350 lbs	12	399 lbs	61" L x 33" W x 33" H	474 lbs
DAT*5800	20' W x 26' L x 9' H	520	4 (2 ea. side)	2	4 (2 ea. opp. sides)	14	4	215 cu.	2,400 lbs	12	499 lbs	61" L x 33" W x 33" H	574 lbs
DAT*6000	20' W x 30' L x 9' H	600	6 (3 ea. side)	3	8 (2 ea. per end per side)	16	12	300 cu.	2,600 lbs	15	570 lbs	61" L x 33" W x 33" H	645 lbs
DAT*6500	25' W x 26' L x 9' H	650	6 (3 ea. side)	3	8 (2 ea. per end per side)	12	4	305 cu.	2,600 lbs	16	590 lbs	61" L x 33" W x 33" H	665 lbs
DAT*6600	20' W x 33' L x 10' H	660	6 (3 ea. side)	3	8 (2 ea. per end per side)	12	4	305 cu.	2,600 lbs	17	600 lbs	61" L x 48" W x 48" H	675 lbs
DAT*6012	20' W x 40' L x 11' H	800	6 (3 ea. side)	3	8 (2 ea. per end per side)	16	12	400 cu.	4,000 lbs	20	710 lbs	61" L x 48" W x 48" H	785 lbs
DAT*7500	24' W x 40' L x 11' H	960	6 (3 ea. side)	3	8 (2 ea. per end per side)	20	12	500 cu.	4,800 lbs	25	925 lbs	61" L x 48" W x 48" H	1,000 lbs
DAT*9018	30' W x 50' L x 13' H	1,500	8 (4 ea. side)	4	8 (2 ea. per end per side)	12	20	750 cu.	4,800 lbs	35	1,299 lbs	61" L x 48" W x 48" H	1,374 lbs
DAT*9099	20' W x 75' L x 11' H	1,500	8 (4 ea. side)	4	8 (2 ea. per end per side)	34	12	750 cu.	4,800 lbs	35	1,299 lbs	61" L x 48" W x 48" H	1,374 lbs
DAT*10800	37' W x 50' L x 13' H	1,850	8 (4 ea. side)	4	8 (2 ea. per end per side)	28	12	850 cu.	4,800 lbs	50	1,599 lbs	61" L x 48" W x 48" H	1,674 lbs

ALL UNITS HAVE A WIND RESISTANCE OF 70 MPH.

FSI® HAZMAT DECONTAMINATION QUALITY CONFORMANCE CERTIFICATE

FSI® is pleased to advise and state that all FSI® DAT® Series Hazmat Decontamination Shower and Shelter Systems are produced with the finest materials and using the finest current technologies in the world to produce leading-edge hazmat decontamination products suitable for use by fire brigades, hospitals, military, emergency management agencies, industry, and others.

All FSI® products are thoroughly tested to ensure proper performance in accordance with the FSI® specifications — based on the FSI® DAT® Series product procured.

All accessories offered with FSI® DAT® series Shower and Shelter Systems have been manufactured by or for FSI® in accordance with all existing and known North American and accepted World standards, if any. In any case all such products are thoroughly tested to ensure proper performance in accordance with Manufacturer and FSI® specifications.

FSI® Decon Showers meet and conform to ANSI/ISEA 113: American National Standard for Fixed and Portable Decontamination Shower Units, and FSI® utilizes only fabrics rated to CPAI-84:1995 Section 5: A Specification for Flame-Resistant Materials Used in Camping Tentage and NFPA 701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

FSI® self-certifies all products as being of the highest quality and has so offered the same since our inception.

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.

Air pressure internally once inflated = 4.3 psi (0.3 bar). U.S. Federal Standard FED-STD-191: Textile Test Methods (Methods 5041, 5102, 5134, 5970), DIN EN ISO 2060, DIN EN ISO 1409-2, DIN EN ISO 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 × 26. Meets NFPA 701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films and DIN 4102-B1 (Low Flammability), French M-2 (Hard to Ignite). * 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 × 57/58. Wt. 230 g/m² ± 5% (approx. 192.3 g/yd² — 6.78 oz). UV / chemical resistant / fire retardant — Rated Ultra Violet Protection (UPF) of 50+ per ASTM D6603-12: Standard Guide for Labeling of UV-Protective Textiles (UPF 40+ is rated Excellent); water repellent w. a hydrostatic resistance of 250 psi +. Anti-fungus / mildew resistant to meet and exceed MIL-STD-810E, Method 508 (Fungus) and ASTM G21-96(2002): Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi. Water Resistance: ISO 811:1981: Textile Fabrics — Determination of Resistance to Water Penetration (Hydrostatic Pressure Test), water pressure 600 m/min. = 5540. Tensile Strength: ISO 13934-2:1999: Textiles — Tensile Properties of Fabrics, Part 2 (Grab Method), in N — Warp = 1300, Weft = 1500. Tear Strength: ISO 13937-1:2000: Textiles — Tear Properties, Part 1 (Ballistic Pendulum Method), in N — Warp = 25, Weft = 43. Burst Strength: ASTM D3787-01: Standard Test Method for Bursting Strength of Textiles (CRT Ball Burst), in N = 1620. Seam Strength: ISO 13935-2:1998: Textiles — Seam Tensile Properties, Part 2 (Grab Method), sewing threads fail at 710 N. Burst Strength 4020 kPa per ASTM D3786 / D3786-13. Fire resistance meets and exceeds CPAI-84:1995 Section 5, 16 CFR Part 1610: Standard for the Flammability of Clothing Textiles, NFPA 701: Test Method 1 (2004) and NFPA 701:2015 Test Method 2 (Plat) — Large Scale, NFPA 702: Classification of the Flammability of Wearing Apparel w. 'A' burn-scale rating, and JIS A 1322:1966: Testing Method of Incombustibility for Thin Materials for Building (Method A). All seams double-stitched and coated both sides.

Inner Canopy: If applicable — 100% Nylon 210T Antron W/R, polyurethane coated 57/58", color: White — Flame retardant to meet NFPA 701: Test Method 1, anti-fungus / anti-mildew, opaque.

Floor: 1,000 dtex 0.58 mm nylon coated w. PU; tensile strength: 2545 N / 2360; tear strength: 106 / 102 N; weight: 660 g/m²; 60" W.

Standard color is FSI Blue® exterior with high-visibility white interior. Red / Green / White / Sand exterior canopy color also available as standard. Other colors optional P.O.A.

FSI® DAT® QE SERIES® PATENT-PENDING ‘QUICK ERECT’ SHELTER SYSTEMS

General Specifications

Canopy: Heavy duty 100% nylon twill (3/5) w. PU white pigment inner coating, ABT. 0.23mm × 57/58. Wt. 230 g/m² ± 5% (approx. 192.3 g/yd² – 6.78 oz). UV / chemical resistant / fire retardant – Rated Ultra Violet Protection (UPF) of 50+ per ASTM D6603-12: Standard Guide for Labeling of UV-Protective Textiles (UPF 40+ is rated Excellent); water repellent w. hydrostatic resistance of 250 psi +. Anti-fungus / mildew resistant to meet and exceed MIL-STD-810E, Method 508 (Fungus) and ASTM G21-96(2002). Water Resistance per ISO 811:1981, water pressure 600 m/min. = 5540. Tensile Strength per ISO 13934-2:1999 (Grab Method), in N – Warp = 1300, Weft = 1500. Tear Strength per ISO 13937-1:2000 (Ballistic Pendulum Method), in N – Warp = 25, Weft = 43. Burst Strength per ASTM D3787-01 (CRT Ball Burst), in N = 1620. Seam Strength per ISO 13935-2:1998 (Grab Method), sewing threads fail at 710 N. Fire resistance meets and exceeds CPAI-84:1995 Section 5, 16 CFR Part 1610, NFPA 701: Test Method 1 (2004), and NFPA 702 w. ‘A’ burn-scale rating, JIS A 1322:1966 Method A. All seams double-stitched and coated both sides.

Inner Canopy: If applicable – 100% Nylon 210T Antron W/R, polyurethane coated 57/58", color: White – Flame retardant to meet NFPA 701: Test Method 1, anti-fungus / anti-mildew, opaque.

Floor: 1,000 dtex 0.58 mm nylon coated w. PU; tensile strength: 2545 N / 2360; tear strength: 106 / 102 N; weight: 660 g/m²; 60" W.

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

Frame / Hub: New patent-pending hub design that is far more durable and stable, and easier to assemble or replace as needed.

DAT® QE Frame / Hub Material Specifications:

Hub is of forged high-density poly-fibers.

Frame Dimensions:

- Outer Diameter: 15.72 ± 0.25
- Wall Thickness: 1.68 ± 0.25
- Carbon Content: 25 ± 2.0%
- Specific Gravity: 1.8 – 2.1

*All testing below uses ASTM and National Test standards

Mechanical Properties:

- Tensile Strength (ASTM D638 · National GB1447-83): L = 3000 – 5200 kg/cm²; T = 2000 – 5000 kg/cm²
- Tensile Modulus (ASTM D638 · National GB1447-83): L = 3.8 – 6.7 × 10⁵; T = 1.5 – 6.0 × 10⁵ kg/cm²
- Flexural Strength (ASTM D790 · National GB1449-83): L = 3000 – 6200; T = 2500 – 5000 kg/cm²
- Flexural Modulus (ASTM D790 · National GB1449-83): L = 4.9 – 12.6 × 10⁵; T = 1.8 – 10.6 × 10⁵ kg/cm²
- Compressive Strength (ASTM D695 · National GB1448-83): L = 2000 – 4000; T = 1480 – 3480 kg/cm²
- Shear Strength (ASTM D732 · National GB1450-83): L = 4540 – 8600; T = 2540 – 6600 kg/cm²
- Izod Impact Strength (V-type) (ASTM D256 · National GB1451-83): L = 250 – 900; T = 200 – 700 kg·cm/cm²

Electrical Properties:

- Volume Resistance (ASTM D257 · National GB1410-78): 10¹² – 10¹⁵ Ω·cm
- Surface Resistance (ASTM D257 · National GB1470-78): 10¹² – 10¹⁵ Ω
- Dielectric Constant (ASTM D150 · National GB1409-79): 3 – 5
- Dissipation Factor (ASTM D150 · National GB1409-79): 0.05
- Breakdown Voltage (ASTM D149 · National GB1408-78): 13 – 40 kV/mm
- Arc Resistance (ASTM D495 · GB1411-78): 60 – 80 (s)

QE SERIES® ‘QUICK ERECT’ — GENERAL SET-UP AND TEAR-DOWN INSTRUCTIONS

All parts are pre-assembled with no special tools required. All components are of interconnected scissor-type expansion frame components.

To ‘Quick Erect’, simply have 2 – 4 support personnel grip the side frame on each side. Pull the width support frames slowly – and then ease the roof frame upwards with the push poles until locked in place. Check and final-position the canopy and floor. Commence use.

Standard color is ‘EMS’ Blue exterior w. high-visibility white inside color. Green, White, and Tan / Sand exterior canopy color also available at no extra cost. Other colors available P.O.A.

All shelters have full privacy zipper closure and full screen zipper closure slip-in and slip-out dirty entry / clean exit doors, 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 above and attached to the frame and flooring for air lock, and reflective striping is found on the upper air vents above doors. Units can attach to a second shower or FSI® shelter. Simply unfold / pop up the unit and commence use in less than 5 minutes (size of shelter dependent).

Every FSI® DAT® QE Series® shelter comes complete with redundant features: Velcro closure loops to hang undress / redress kits etc. on the inlet and outlet side.

All DAT® QE Series® shelters are available with cross and center divider curtains, side doors, extra windows, skylights, HVAC / clothing ducts with ties, etc. as offered in published FSI® price lists and at www.fsinorth.com. Multiple optional accessories available – inclusive of air heaters, air coolers, elevation grids, waste-water pumps, etc.

DAT® QE SERIES® QUICK ERECT SHELTER



Step 1: Spread groundsheet.

Step 2: Place shelter bag / sleeve in the middle of the groundsheet.

Step 3: Remove shelter bag / sleeve. You should arrive at the picture at left. It is important to spread the groundsheet first to protect the shelter from possible damage.



Step 4: With 2 / 4 persons (size and shelter dependent), stand at each corner of the shelter.

Step 5: Spread / pull the shelter frame apart. Take note not to step on the canopy fabric. Also take note that the spreading / pulling should be done uniformly, with equal speed.



Step 6: Support the shelter halfway. Lift the shelter slightly on both sides so that a person can go beneath and place a push pole inside as per picture at left. Lock the push pole into the roof frame slots as available.

Step 7: With equal force on each side, lift the shelter upwards until the frame is fully extended and locked in place.

Step 8: Attach shelter floor by attaching supplied floor straps to frame.



SET-UP TIPS

1. An important tip for setting up the struts correctly is to push the shelter together upwards. If one side pushes and the other does not, there will be applied stress on one side as the frame is articulating.

2. Make sure the push rods do not slide off while pushing upwards – this can be achieved by having the push-rod tip fitted inside the wire hubs.

Take note to watch the posture of lifting to prevent back injuries. Small QE Series® shelters / showers may be deployed with as few as 2 personnel while larger units may require 4 or even 6 personnel to deploy. The on-scene coordinator must determine the number of personnel required based on size, weight and organization rules and regulations.

FSI® DAT® 'QE SERIES'® 'QUICK ERECT' SHELTERS

Measured inside-to-inside — outside-to-outside add approx. 1.5 ft. per dimension.

Patent-pending retractable carbon-composite tubing shelter w. patent-pending high-density polyfiber hub with canopies, floors, and carry sleeves / bags — just as with FSI® DAT® series air-inflatable products. See detailed specs.

MODEL	DESCRIPTION	SIZE (APPROX.)	SQ. FT.	WEIGHT
DAT® QE 1358	FSI® DAT® 'QE' Quick Erect Shelter	13.5' W × 8' L × 8.5' H	108	160 lbs
DAT® QE 13512	FSI® DAT® 'QE' Quick Erect Shelter	13.5' W × 12' L × 8.5' H	162	185 lbs
DAT® QE 13516	FSI® DAT® 'QE' Quick Erect Shelter	13.5' W × 16' L × 8.5' H	216	220 lbs
DAT® QE 13520	FSI® DAT® 'QE' Quick Erect Shelter	13.5' W × 20' L × 8.5' H	270	255 lbs
DAT® QE 13524	FSI® DAT® 'QE' Quick Erect Shelter	13.5' W × 24' L × 8.5' H	324	305 lbs
DAT® QE 1354	FSI® DAT® 'QE' Quick Erect Shelter — sections to add on to DAT® QE 13524 — per section	13.5' W × 4' L × 8.5' H	54	80 lbs
DAT® QE 3030	FSI® DAT® 'QE' Quick Erect Shelter	10' W × 10' L × 8.5' H	100	155 lbs
DAT® QE 1310	FSI® DAT® 'QE' Quick Erect Shelter	13' W × 11.5' L × 8.8' H	150	180 lbs
DAT® QE 3015	FSI® DAT® 'QE' Quick Erect Shelter	11' W × 15' L × 8.5' H	165	186 lbs
DAT® QE 1315	FSI® DAT® 'QE' Quick Erect Shelter	13' W × 15' L × 8.5' H	195	205 lbs
DAT® QE 3060	FSI® DAT® 'QE' Quick Erect Shelter	11' W × 20' L × 8.5' H	220	221 lbs
DAT® QE 1321	FSI® DAT® 'QE' Quick Erect Shelter	13' W × 21' L × 8.5' H	273	256 lbs
DAT® QE 1127	FSI® DAT® 'QE' Quick Erect Shelter	11' W × 27' L × 8.5' H	300	280 lbs
DAT® QE 1327	FSI® DAT® 'QE' Quick Erect Shelter	13' W × 27' L × 8.5' H	351	320 lbs
DAT® QE 1624	FSI® DAT® 'QE' Quick Erect Shelter	16' W × 24' L × 10' H	384	335 lbs
DAT® QE 1648-VAGRSP	Complete carbon-fiber framed, patented hub-design shelter — w. carry bags, push poles, inner & outer canopy and HVAC plenum w. 22 windows, 12 HVAC ducts, and 8 man-doors (4 middle, 4 end). Ships in 2 pallets each (cm) 140 × 102 × 80 @ 123 kg + 2 pallets (cm) 148 × 110 × 86 @ 195 kg ea. = 4 pallets total / 636 kg (1,400 lbs approx.)	16' W × 48' L × 10.7' H	768 (71.3 m ²)	1,400 lbs approx.
DAT® QE 192-33A	FSI® DAT® 'QE' Quick Erect Shelter	20' W × 35' L × 11' H	700	750 lbs

SHELTER / SHOWER ADDITIONAL OPTIONS

All DAT® series shelters available with cross and center divider curtains, side doors, extra windows, skylights, HVAC / clothing ducts with ties, etc. as below.

F-SKU	DESCRIPTION
F-CDC34A	FSI® Shelter — ½ Cross Divider Curtain, heavy duty, non see-through, light color, removable, slip-thru — for DAT®3060, DAT®3030, DAT®3015, DAT®3370, DAT®4070, DAT®4360
F-CDC34	FSI® Shelter — Cross Divider Curtain, heavy duty, non see-through, light color, removable, slip-thru — for DAT®3060, DAT®3030, DAT®3015, DAT®3370, DAT®4070, DAT®4360
F-CDC56A	FSI® Shelter — ½ Cross Divider Curtain, heavy duty, non see-through, light color, removable, slip-thru — for DAT®5672 / 5800 / 6000 / 6600 / 6012 / 7500 / 9018
F-CDC56	FSI® Shelter — Cross Divider Curtain, heavy duty, non see-through, light color, removable, slip-thru — for DAT®5672 / 5800 / 6000 / 6012 / 7500 / 9018
F-CD34	FSI® Shelter — Center Divider Curtain — for DAT®3060, DAT®3030, DAT®3015, DAT®3370, DAT®4070, DAT®4360
F-CD56	FSI® Shelter — Center Divider Curtain as above — for DAT®5672 / 5800 / 6000 / 6600 / 6012 / 7500 / 9018
F-S	Skylights for all shelters
F-STE	Private Stencil × 2 per shelter / shower / pool / other — limited sizes / styles / colors avail.
F-STEL	Special Logo × 2 per shelter / shower / pool / other — limited sizes / styles / colors avail.
F-ERS	Red or Green reflective striping above dirty and clean entry / exit ends of decon units
F-SD	Side door for shelters
F-CBS	Heavy Duty Carry Sleeve / Bag for DAT®1010S / DAT®2020S / DAT®2525S / DAT®2626S / DAT®3030 / DAT®3015 / DAT®3535S
F-CBM	Heavy Duty Carry Sleeve / Bag for DAT®3060 / DAT®3060S / DAT®3370 / DAT®4070 / DAT®4070S / DAT®4360 / DAT®4099S
F-CBL	Heavy Duty Carry Sleeve / Bag for DAT®5672 / DAT®5800 / DAT®6000 / DAT®6600 / DAT®6012
F-CBXL	Heavy Duty Carry Sleeve / Bag for DAT®7500 / DAT®9018 / DAT®9099 / DAT®10800
F-EW	Additional windows per shelter
F-AD	Additional approx. 17" air duct cloth inlet / outlet for HVAC / clothing / etc. w. tie closure
F-RFDK	Retrofit duct kit to add an HVAC duct to an existing FSI® DAT® series shelter / shower system — includes 19" dia. template, glue, boot w. velcro to affix around the cut opening, hanging HVAC duct piece
F-RV	Pneumatic replacement high-pressure / inflation-deflation / overpressure valves — per valve. Specify type with order.
F-SC	Cloth Velcro skylight cover — per skylight cover
F-DATTEF	Approx. 5' long tunnel-like extension w. floor piece to join one shelter to another
F-FL10	10" HD gusseted Velcro flange attached to ends or side doors of shelters to allow attach to other units side-to-side or end-to-end
DAT-Z	Zippers on each end door vs. flaps and tie downs
F-INSULCAN	Insulating inside canopy complete with hanging hooks for all sizes of DAT® series shelters inclusive of Isolation Shelters and Medical Surge Capacity Shelters. Heavy Duty 240 g/yd², 200-denier nylon, polyurethane-coated materials dramatically improve insulating factor.
F-FLDS	Full center-length internal closed air-ducting 'plenum' system for all FSI® shelter systems with multiple air-outlet vents (size of shelter dependent) — ideal for ducting in hot / cold air and / or for HEPA / other air filtration and decontamination with Cold Plasma / Ozone / other. Also ideal for hiding wiring, cables, etc. internally — 10 % of unit cost or \$1,500.00 maximum when ordered as original equipment on a new product; up to \$3,000.00 max or 15 % of unit cost if ordered after market.

SHELTER / SHOWER ADDITIONAL OPTIONS (CONTINUED)

F-SKU	DESCRIPTION
F-STRSCR	PVC strip screen in man-door widths of approx. 40" to be pre-hung on inside air berm of isolation shelters for bump-thru entry / exit, to better ensure minimal air-flow disruption and to meet CDC-required 12+ air exch. / hr. Per strip screen.
F-FITMAT-HUM	Heavy-duty base flooring to lay on top of existing shelter floor. ¾" thick, water proof, non-absorbent, anti-fungal, anti-microbial, 9,760 lbs. sq./ft. static load, rubber subsurface. Each module is 12" x 12" with interlocking teeth to connect to each module.

Decontamination Shower Curtain Stalls, Shower Heads, Brushes – Where possible and feasible FSI® will accommodate your request for quantity and placement of these items. Smaller shelters are more limited in scope.

F-SKU	DESCRIPTION
F-SCS	Shower curtain stall, heavy duty, non see-through, light color, removable, slip-thru – for use inside containment decon pool as above.
F-SH	Single hanging simple shower head
F-SHHT	Single approx. 5' L coiled hose w. shutoff valve and multiple-function trigger gun
F-SB	Gentle scrub handheld shower wand approx. 3 ft. L
F-SBTG	Single multiple-function trigger gun
F-MD1A	Single or double center zipper(s) in middle of single large entry door on each end of the DAT® series shelters
F-MD1	Two extra full man doors on each end of DAT® series showers / shelters (smallest sizes may not accommodate two full extra man doors on each end)
F-MD2	3 extra full man doors on each end of the DAT® series showers / shelters (smaller-sized FSI® shelters / showers may not be able to accommodate three man doors on each end)
F-ZCF	Zippered connector flaps on each end of any DAT® series shower / shelter & attachable floor pieces on each end. This allows units to be joined end-to-end to increase size and working space via a tunnel extension on each end. Also attachable to most competitive models.
DAT-WB	4 ft. long x 8" dia. water bladders for use when tie-down ropes and stakes are not useable
F-HD150BT-BAL	150 Gal. Shelter Stabilizing Ballast. Approx. 2' x 12'. Made with HD 30 Mil XR-5 materials, w. fill / drain fitting adapter with 1-½" Iron Pipe Threads. Use when stake-and-peg kits cannot be used.
DAT-Z	Zipper-closure doors for any decon shower vs. the Velcro-closure doors supplied as standard – per line add \$199.00 to per-unit cost. (e.g., a DAT®3060S three-line shower would cost an additional \$597.00; a DAT®2020S would cost an additional \$199.00.) Priced per line.
F-RTRG	Red and Green Reflective Tape Strips to designate shower 'dirty' entry / 'clean' exit points – approx. 5 ft. total L. ea. of green and red reflective tape strips on air-berm sections each end.
F-LHS	Hanging Straps for placement of interior lights in decon shower lines. Per line.
F-RK	FSI® Shelter / Shower full repair kit from FSI® in blue bag – swatches of floor / berm / canopy, glue, manual, stakes, tie-down ropes, hammer, high-pressure air-fill hose, and high-pressure SCBA fitting
F-RKINDE	FSI® full shelter / shower repair kit from FSI® in blue bag – swatches of floor / berm / canopy, glue, manual, stakes, tie-down ropes, hammer, high-pressure air-fill hose, high-pressure SCBA fitting, and heavy-duty inflator / deflator
F-RSK	FSI® Shelter / Shower Repair Swatch Kit from FSI® in small orange container – swatches of floor / berm / canopy, and a small tube of MEK air-berm glue

Multiple optional accessories available, inclusive of air heaters, air coolers, elevation grids, waste-water pumps, etc. Visit www.fsinorth.com.

SET-UP PROCEDURES FOR USE — DAT® QE SERIES® QUICK ERECT SHOWER



SET-UP TIPS

1. An important tip for deploying the struts correctly is for the 2 – 4 person set-up crew (size of unit dependent) to push the shelter upwards together from opposite sides. If one side pushes and the other does not, there can be applied stress on one side of the articulating frame.



Step 1: Spread groundsheet.

Step 2: Place shower bag / sleeve in the middle of the groundsheet.

Step 3: Remove shower bag / sleeve. You should arrive at the picture on the left. It is important to spread the groundsheet first to protect the shower from possible damage.

Step 4: With 2 / 4 persons (size and shower dependent), stand at each corner of the shower.

Step 5: Spread / pull the shower frame apart. Take note not to step on the canopy fabric. Also take note that the spreading / pulling should be done uniformly, with equal speed.

Step 6: Erect the frame by raising the center and pulling the frame sides in uniformly. When the frames are fully deployed, adjust canopy fabric as needed.

Step 7: Place the floor first inside the unit and use the Velcro to attach the floor to the inner canopy.

Step 8: Secure the plumbing as instructed on the next page.

Step 9: Place the decon pool inside the unit, position, attach, and inflate for use as pictured on the next page.

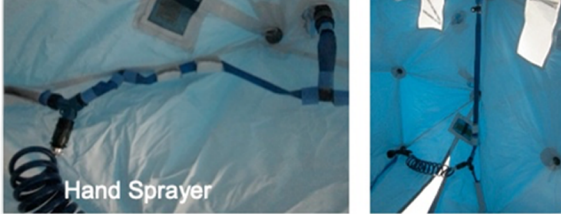
ATTACHING THE PLUMBING



Quick Disconnect

Quick Disconnect

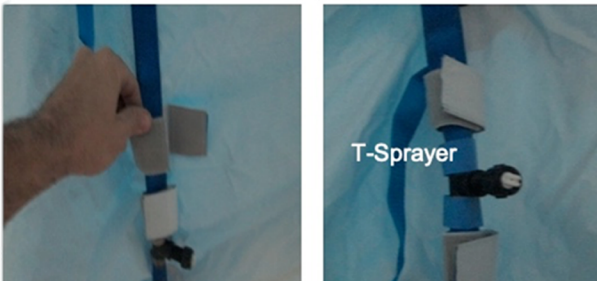
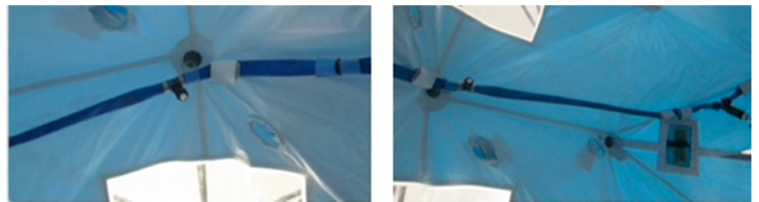
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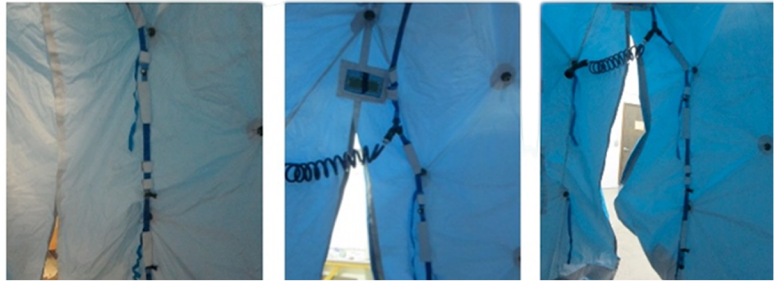
Hand Sprayer

Attach the plumbing by first connecting it to the quick disconnect that is hanging from the ceiling of the shower.

Secure plumbing to the ceiling and walls using the Velcro straps attached to the inner canopy.



T-Sprayer



Place the pool inside the unit. Open the valve and inflate the pool. Attach the pool to the same Velcro that the floor is attached to.



QUICK-DISCONNECT COMPONENTS

- T-Sprayer — overhead spray manifold quick disconnect
- Hand Sprayer — coiled hose w. multiple-function trigger gun, quick disconnect
- Multiple Quick Disconnects at ceiling, wall, and pool inlet

TEAR-DOWN AND STORAGE OF UNIT

1. **Step 1:** Loosen all Velcro / other closure doors completely so frame can be collapsed for storage.
2. **Step 2:** Deflate and remove the decon pool.
3. **Step 3:** Remove the floor.



4. **Step 4:** Carefully bring the framed unit down to the ground.
5. **Step 5:** Use the supplied belt tie(s) to tighten the frame to its smallest size.



6. **Step 6:** Place the frame unit, repair kit, floor, and pool into supplied carry bag / sleeve.
7. **Step 7:** Use the other supplied belt tie(s) to tighten the carry bag further — again with a goal of attaining a smaller 'footprint' for storage.
8. **Step 8:** Store the unit in as close to room temperature as is possible and feasible.



FSI® PRODUCTS — LIMITED 3-YEAR WARRANTY

FSI North America®, a Division of Fire Safety International, Inc.® (FSI), (“Warrantor”) warrants to the original purchaser of all new FSI® DAT® series inflatable decon showers and shelters — equipment supplied by Warrantor and to any person to whom such equipment is transferred — that such equipment shall be free from defects in materials and workmanship during the three (3) year period commencing upon the receipt of such equipment.*

FSI® will repair or replace a product that fails to satisfy this warranty. Repair / replacement shall be at the discretion of FSI®.

FSI® will not be responsible for wear and tear; any improper installation; improper use or maintenance; negligence of the owner or user; damage; or anything else beyond our control such as damage caused by environmental factors such as sun / heat / cold / wind. Further, we will not be responsible for any consequential, incidental or indirect damages, including any damages and loss of profits from any cause whatsoever. No person has authority to change this warranty.

Products must be given an FSI®-issued RGA Number and be returned promptly to FSI® for warranty service **AT CLIENT'S COST IN PACKAGING SUITABLE AND CORRECT TO PROPERLY PROTECT THE PRODUCTS DURING THE RETURN SHIPMENT. DAMAGE CAUSED DURING THE RETURN PROCESS, IF ANY, WILL BE AT CLIENT'S EXPENSE AND RESPONSIBILITY. IF THE CLAIM IS INDEED A VALID WARRANTY CLAIM AS DEFINED SOLELY BY FSI® — ALL FREIGHT COSTS WILL BE CREDITED BACK TO CLIENT.**

In any case costs for freight charges outside the United States are not covered under this warranty and remain the sole responsibility of the purchaser. We will not be responsible for: wear and tear, improper installation, use, maintenance or storage, negligence of the owner / user, repair or modifications after delivery, failure to follow instructions or recommendations, or other misuse or activity beyond our control. FSI® reserves the right to change the design or parts of / in its products from time to time without notice and with no obligation to maintain a spare-parts inventory or to make matching changes in products previously manufactured.

FSI® DAT® series showers and shelters are offered with carry bags / carry sleeves designed to offer a basic method to move and transport the product from point A to B. The bags / sleeves may also provide basic product protection. In such a capacity FSI® carry bags / sleeves are subject to scuffs, rips, tears, stitch pulls, et al. These are not considered warranty items. Further, FSI® carry bags / carry sleeves are not considered a product in and of themselves, and so no limited 3-year warranty is offered on carry bags / carry sleeves.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OTHER THAN THOSE INCLUDED IN THE AFOREMENTIONED STATEMENT ARE OFFERED. FURTHER, WE DISCLAIM ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

* Accessories not offered as manufactured by FSI® — such as air heaters, water heaters, lighting, generators, detergent injectors, toilets, sinks, water purification, and misc. equipment as defined by FSI® — will be subject to the actual manufacturer's warranty of such product. All other products offered as manufactured by FSI® are offered with a 1-year warranty.