

# **FSI** NORTH AMERICA®

**SAFETY THROUGH TECHNOLOGY**  
**A Division of Fire Safety International**  
[www.fsinorth.com](http://www.fsinorth.com)

Serving the Life Safety Industry Worldwide since 1997



## ***FSI® DAT® Series Mobile Field Hospital Surge Capacity Shelter Systems***



**Selected as one of  
the top 20 new and  
innovative products.  
2006 EMS Expo, Las Vegas**

***Rapid Deployment • Scalable • Modular***



## FSI® DAT® Series Mobile Field Hospital Award Winning\* Isolation Shelter Systems



DAT® 37' X 50' - 30 BED SHELTER

Pneumatic technology is now a preferred system for Hospitals/Medical Centers according to specifying influences:

*"Pneumatic shelters that set up in minutes make the most sense for use in mobile field hospitals since nurses/doctors simply will not have the manpower, training, time, or tools to set up structural Quonset hut type shelter systems in the event of a major disaster when the arrival of mass numbers of incoming patients is imminent. We believe that when hospitals find the time to strategize ahead they will realize this and buy products accordingly."*

### FSI® offers leading edge pneumatic shelter systems in sizes 100 – 1,850 sq. ft. plus.

In recognition of the extreme requirements of the surge capacity markets that may require shelter systems to be in place in all manner of severe weather for extended durations of weeks and even months FSI is pleased to offer a most robust, durable range of shelters to meet this demand.



Excellent Roof Load Capacity

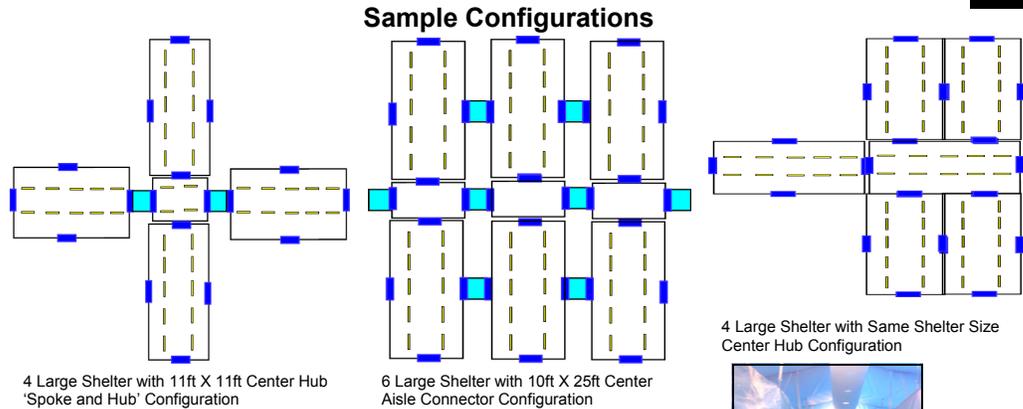


5 Center Air Berm Extreme Load Bearing

#### Features and Benefits:

- Quadruple overlapped and glued seams that result in a system that stands for weeks and weeks on end in any and all weather conditions and temperatures without need of re-inflation. In addition FSI uses the same heavy duty air berm materials in all shelters as are used in the highly respected and very rugged FSI Rescue Boat range – for the most cut and abrasion resistant products on the market.
- FSI employs a tapered air berm structure for added strength and double interlocking air berms with multiple fill ports to prevent total shelter collapse in the very unlikely event of air berm failure.
- FSI uses an integral base air berm around the entire bottom edge of the shelters for added structural strength and excellent lateral strength in high wind conditions of up to 70 mph +
- FSI uses only USA made inflation deflation valves – far superior to import valves.
- FSI shelters have a low ambient internal air pressure - approx. 4 psi when berms are fully inflated and 'rock hard.' Air berms remain standing when internal air pressure is as low as approx. 1.5 psi.
- Every shelter with a width of over 10 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 on shelters over 20ft wide. FSI shelters lead the industry in terms of weight/snow bearing capabilities/strength. FSI shelters are so strong a grown man can walk up and over them. Whatever the specification at hand FSI shelters meet and exceed.
- Available F-INSULCAN inner canopy for approx. estimated R 8 insulation factor – ideal in both hot and cold environs.
- Available F-FLDS full length plenum for HVAC – superior air distribution internally and thus comfort for patients and care givers.
- Available full 40" center aisle walkways for efficient patient and care giver movement.
- Available # F-STRSCR 'PVC strip screens' to allow for bump thru entry/exit with minimal air flow disruption in all 40" wide center aisle and side entry man doors to be inside already standard double sided full closure zipper entry/exit doors. Designed to meet and exceed CDC required 12 plus air exchanges per hr.
- Available multiple entry/exit door configurations to meet all needs.
- Available 10" or longer on demand HD velcro fabric flange all the way around the door down to the floor in all cases with double sided zipper connections to attach to the same 10" or longer HD velcro fabric flange off the next unit - thus 20" tent like attachment areas are created between all man doors to the next units end to end or side to side. Such a configuration allows pass thru between units in comfort.
- Available center hubs or center aisle designed units in multiple sizes on demand from 11' X 11' open all 4 sides units to 24 Ft X 40 ft or even larger shelters – open all 4 sides or configured as required to house care givers/staff and equipment

**\*\* FSI Surge Capacity Shelter Systems were selected – in the face of all major competitors also exhibiting – as one of the top 20 new and innovative products at the 2006 EMS Expo in Las Vegas.\*\***



Center Aisle and Air Plenum

### SURGE CAPACITY SHELTERS REGARDLESS OF SIZE GENERAL SPECIFICATIONS

Air pressure internally once inflated = 4.3 psi (0.3 bar)  
 USA Federal Standard FS # 191 5041/5102/5134/5970 Test method structural test results  
 Total Weight (g/m<sup>2</sup>) – 1055 Thickness (mm) – 0.90  
 Cut strip tensile strength (lbs. /in.) – Warp = 450 - Weft = 404  
 Elongation (%) Warp = 30 - Weft = 47 Tongue tear (lbs.) Warp = 87 - Weft = 100  
 Adhesion (lbs. /in.) – Warp = 9.4 - Weft = 8.9 Density = 30 X 24.5  
**Frame:** Heavy duty 1100 dtex polyester coated w. plastomer on both sides (1.5 mm thick of 0.62 mm plastomer coated PVC/0.3 mm polyester yarn/0.62 mm plastomer coated PVC) – meets and exceeds MIL-C-17415-16AA, UV/chemical resistant. **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 – UV resistant and water repellent w. a hydrostatic resistance of 250 psi + - Mildew resistant to meet and exceed US Fed. Test MIL.STD.810E 508 - 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. **Floor:** PVC of 0.58mm thickness (1,000 Dtex, 18 X 18 polyester) 660 grams per sq. mm 60" W  
 Designed to meet and exceed CDC requirement of 12 ACH/HR air exchanges per hour and 0.01 inches of water column of negative pressure when used with appropriate air filtration products.  
 Standard color is FSI Blue™ exterior w. high visibility white inside color. Green and White exterior canopy color also available at no extra cost. Other colors optional with an extra charge.  
 All FSI DAT® series Isolation (ISO) Shelters have full privacy zipper closure double door 'airlock' in and out dirty entry/clean exit doors, zippered connector flaps on each end to attach one unit to another, air inflation valves\*\*, HP air inflation hose w. safety cord, pressure relief valves\*\*, tie down ropes and 4 D-rings to tie off to\*\*, repair kit, manual, carry bag, 2 upper air vents with full velcro closure for isolation applications , clear vinyl windows with full velcro closure flaps for privacy/night/blackout use\*\*, HVAC hanging air ducts with ties for isolation shelter use\*\*, 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. Units can attach to a second shower or FSI shelter. Simply inflate the unit and commence use in approx. 1 - 12 minutes (size of shelter dependent). \*\*shelter size dependent  
 Every FSI DAT® series shelter comes complete with electric inflator/deflator, and high pressure scba fitting.  
 All DAT® series shelters available with cross and center divider curtains, side doors, extra windows, skylights, HVAC/clothing ducts with ties, etc.

## Ask FSI for Complete Specifications on All Sizes and Models of Surge Capacity Shelter Systems and Accessories



Many configurations available



Limited Storage Required



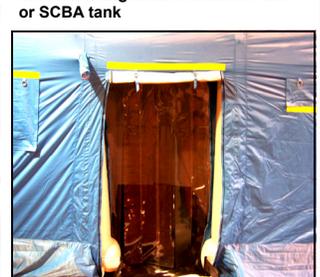
Inflation using included inflator unit or SCBA tank



Spacious Interior—most will accommodate beds positioned end to end



HVAC Plenum and Inner Liner



Bump through Strip Screens

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# FSI Hospital Surge Capacity Shelter Accessories



**F-EM505** Pandemic Flu kit includes **Coverall** of 50gsm Sureshield, white, with hood, WECCR style, one piece torso, double zipper flap, V-shape crotch, with 1.5cm reinforced stripe at crotch and armpit, elastic at wrists, waist and ankles. #5 zipper, no pockets, no printing on the coverall; Two pieces of vinyl gloves, natural color; Two pieces of shoe cover, 40gsm PP, white, regular, latex elastic, size:L(39cmX16.5cm); Face mask with eye shield, white, made of 18gsm PP+20gsm melt-brown+ 25gsm PP, white. The eye shield is made of transparent plastic. The entire kit is packed in one polybag.

**F-EM506** Pandemic Flu kit includes **Isolation Gown** of 50gsm Sureshield, white, with ties at neck and waist, elastic cuffs; Face mask made of 18gsm PP+20gsm with eye shield made of transparent plastic, white. The entire kit is packed in one polybag.



**F-TM45-TPS** - 45Kw mobile generator, complete ready to run generator sets with DOT rated integral tank trailers. includes a heavy-duty weather enclosure with hinged doors, critical grade exhaust silencer, battery, oil, anti-freeze, and full output circuit breaker. The standard analog control panel provides full instrumentation with voltmeter, frequency meter, percent of load meter, oil pressure gauge, hour meter, coolant temperature gauge, fuel level gauge, and battery voltmeter. The controller also provides a safety shutdown system. Also includes a 75 gallon fuel tank, electric brakes with safety disconnect, lockable storage trunk at the front of the trailer, and sound attenuated enclosure. Power Distribution Boxes/ Spider Boxes/STOW Cords and Multi-Tap Outlet Electrical Cords also available



**FSI Transporter™ Fluid Resistant Disposable Adult and Pediatric Backboards.** These FSI Transporter™ spinal immobilization backboards are offered in a number of configurations (with/without straps, autocradles, C Collar, other).



**F-EM-262A** - FSI - Economy Portable Field Hospital Bed/cot w. approx. 1.5" Thick FR Mattress Pad, head and foot adjustments, IV Pole, 350LB capacity, 38cm(H)X70cm(W)X210cm(L) - 15"H X 28" W X 83" L; 35 lbs,

**F-EM-262A-HSR** - FSI - Economy Portable Field Hospital 'Procedure 30" H type' Bed/cot w. 4 DROP DOWN SIDE RAILS - 2 ON EACH SIDE 1.5" FR Mattress Pad, head and foot adjustments, IV Pole, 350LB capacity, 30" H X 28" W X 83" L; approx. 47 lbs.



**F-EM560-A-R** - FSI - Premium Portable Field Hospital Bed/cot w. 4 DROP DOWN SIDE RAILS - 2 ON EACH SIDE, extra thick comfort 3" cushion FR Mattress Pad, head and foot adjustments, IV Pole, 550 LB + capacity using 1.50 mm HD framing, 15"H X 33" W X 83" L; 48 lbs.



**F-EM560-HBSR** - FSI - Premium Portable Field Hospital 'Procedure 30" H type' Bed/cot w. 4 DROP DOWN SIDE RAILS - 2 ON EACH SIDE, extra thick comfort 3" cushion FR Mattress Pad, head and foot adjustments, IV Pole, 550 LB + capacity using 1.50 mm HD framing, 30"H X 33" W X 83" L; 58 lbs.



**F-EMAT5T** Portable Multi combination AC/Air heat/HEPA air filtration/UVGI decon/post event Ozone decon of shelters - ideal for surge capacity systems. HEPA filtration 99.99 % @ 0.3 micron/99.97 % at 0.1 micron, 24" X 24" X 12" (60 X 60 X 30cm) - 2,400 CFM, 10,000 cubic ft. normal filter loading. AC = 60,000 BTU. Air heat = 68,000 BTU. Post event Ozone Decon. Manual positive or negative pressure control. Includes (3) 20' (6M) power cables, 220V, (2) 14" X 25' (35cm X 7.6M) Lengths of ducting. 30 air changes per hr., approx. 500 lbs. (227Kg) , 68" X 36" X 68" (1.72 X .91 X 1.72M)



**F-EMAT3T** Portable Multi combination AC/Air heat/HEPA air filtration/UVGI decon/post event Ozone decon of shelters - ideal for surge capacity systems. HEPA filtration 99.99 % @ 0.3 micron/99.97 % at 0.1 micron, 18" X 24" X 12" (45 X 60 X 30cm) - 1,100 CFM, 5,000 cubic ft. normal filter loading. AC = 36,000 BTU. Air heat = 68,000 BTU. Post event Ozone Decon. Manual positive or negative pressure control. Includes (3) 20' (6M) power cables, 220V, (2) 14" X 25' (35cm X 7.6M) Lengths of ducting. 15 air changes per hr., approx. 400 lbs. (182Kg) , 45" X 28" X 48" (1.14 X .71 X .71 M)



**FSI DAT® Series** industry leading range of Hazmat Decon Shower Systems.

**FSI Heat 200A** - 440,000 btu, 14 gpm total flow rate, multi fuel capable (diesel # 1, 2, JP4, JP8, home heat oil, kerosene), portable water heater.



DAT1010S

DAT3535S

DAT3060S



**F-FWOUT12** 12 gpm (48 lpm) portable water purifier, wheeled unit w, lift handles and frame, self prime, single tube, double pass, 20 ft. (6M) 12V ext. cord, 3/8" (9mm) flexible inlet/ outlet tubing, cigarette lighter plug adapter, 75 lbs. (34Kg) , 24" H X 30" L X 27" W (60 X 76 X 68cm). Portable water purification systems for all but salt water. F-FW series systems offer a sediment filter/.5 micron carbon filter/UV light saturated 2X thus offering 99.999999 % bacterial kill far exceeding US EPA micro filtration requirements



**P-LL** 30 Watt fluorescent lighting w. on/off switch and a 48" (1.2M) hanging strap kit, 2,200 lumens, 20,000 hr.. rated, polycarb. Small dia. outer tube w. domed end caps/ water tight clamps, 5' (7.6M) power cord, 120 VAC ballast inline, all NEMA rated, vinyl reflector directs light where needed.  
**P-LLL** 50 Watt version also available

## BODY BAGS & DISASTER POUCHES



BODY BAG - KIT 4

**F-PCH-KIT4** - FSI Body Bag Kit - a complete cadaver kit which includes, 1 body bag (8mil, 36" X 94", straight zipper, #5 pulls, heat sealed seams, guaranteed 300# static lift capacity), 3 - ID Tags, 3 - contamination tags, 1 - biohazard tag. 10 bags/case

**FSI MCI Trailers** - Superior grade Falcon series American Hauler trailers with lighting packages, TT extended tongue, recessed e-track, insulated ceiling liners, scissor jacks, side door, appropriate installed shelving with storage boxes on both sides and back ramp doors (in white or red color as standard - other colors on a P.O.A. basis)



FSI North America® is the North American trade name for Fire Safety International Inc.®, incorporated in the State of Delaware in 1997. FSI's Ohio Vendor License # is 18-478473. FSI also deals extensively with the US Gov't./Military and has a Cage Code # 1VUR0, and CCR Vendor #06-922-9818. Fire Safety International's Federal Tax EIN # is 06-1492126, and our D&B Duns # is 06-922-9818. FSI operates out of the Cleveland OH market area with offices in Sheffield Lake OH as a woman owned small business enterprise.

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