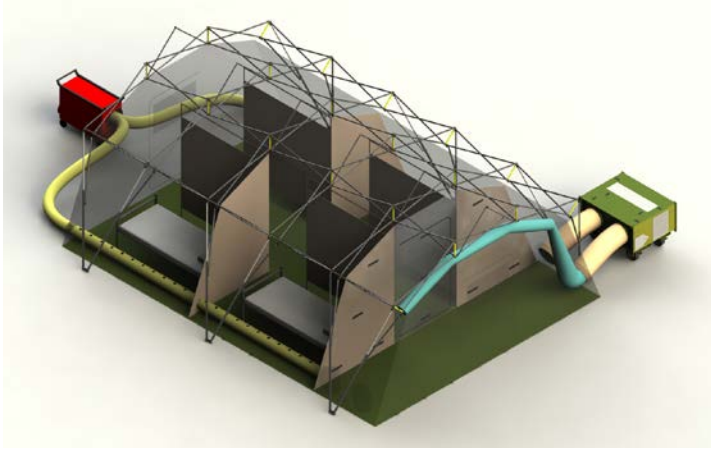
PATIENT ISOLATION SYSTEM

Rapidly-Deployable Containment for Infectious Personnel

NEW PRODUCT DEVELOPMENT

The HDT Patient Isolation System is a complete, rapidly-deployed, mobile shelter system that provides effective airborne infection control and isolation. Designed to contain and destroy such airborne pathogens as Influenza, Measles, Chickenpox, Anthrax (inhalational), Smallpox, Crypttococcosis and Tuberculosis, the HDT Patient Isolation System is an ideal solution for infectious outbreaks in austere locations or as scalable overflow containment for hospitals and healthcare systems.

The system utilizes HDT's Base-X family of shelters – our most advanced lightweight rapidly-deployed frame shelters – paired with our PASS Air Isolation Unit that provides up to 1,600 cfm of negative air pressure that meets CDC guidelines for medical isolation. The complete system also includes a 3-ton environmental control unit (ECU) for shelter heating and cooling.



The HDT Base-X 305 shelter offers 450 sf of floor space and can accommodate four patients in individually-enclosed isolation spaces.

SYSTEM COMPONENTS

HDT Base-X Shelter with Sealed Liner

- Available in three sizes – 450, 630 or 900 sf – configured to isolate infectious patients in individual, fully-enclosed spaces
- Each shelter features a 5-foot wide hallway and a 90 sf anteroom
- Shelters can be set up by 4-6 personnel in 15 minutes, without specialty tools or equipment

PASS Air Isolation Unit

- Patented technology that captures, contains and neutralizes biological contaminants using HEPA filtration
- Creates negative pressure for medical isolation
- Meets or exceeds the CDC guidelines for medical isolation in all field hospital and surge applications

Environmental Control

- 36,000 BTU/H (10.55 kW) cooling capacity
- 34,000 to 68,000 BTU/H heating capacity
- All-weather durability
- Adjustable air flow – 1,100 CFM (1,869 m^3/h) max

The system includes a PASS Air Isolation Unit (above left) to capture, contain and neutralize biological contaminants. A 36,000 BTU environmental control unit (above right) delivers clean cool or warm air for patient comfort.

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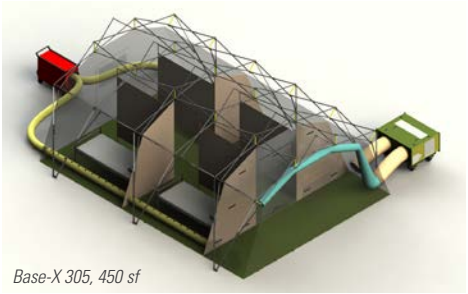
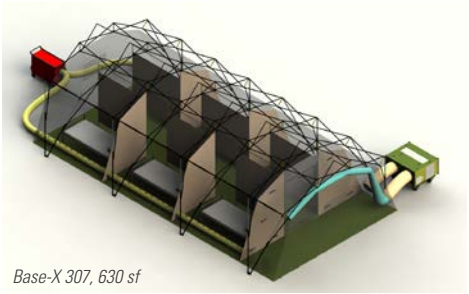
NEW PRODUCT DEVELOPMENT

BASE-X SHELTER OPTIONS

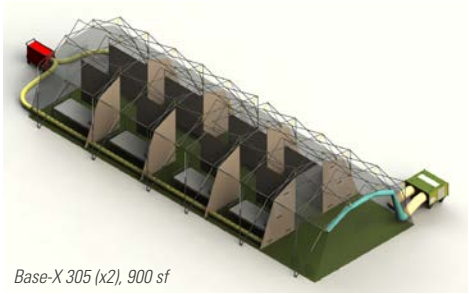
- Three shelter sizes allow for multiple isolation room options
- Each shelter option includes one 90 sf anteroom for equipment or staff
- Five-foot wide hallway for ease in maneuvering patients or equipment
- Shelters set up in 15 minutes with four personnel



Base-X 305, 450 sf



Base-X 307, 630 sf



Base-X 305 (x2), 900 sf

PASS AIR ISOLATION UNIT

- High-flow HEPA filtration combined with 254NM UVGI for comprehensive air purification
- Meets or exceeds CDC guidelines for airborne infection isolation for shelters up to 8,000 ft^3
- Variable speed blower delivers 0 to 1,600 cfm
- Digital controller displays room pressure and HEPA filter pressure in real time
- Durable, all-weather construction

ENVIRONMENTAL CONTROL UNIT

- 36,000 BTU/H (10.55 kW) cooling capacity
- 34,000 to 68,000 BTU/H heating capacity
- Rugged construction withstands harsh weather conditions
- Adjustable air flow – 1,100 CFM (1869 m^3/h) max

HYGIENE SHELTER OPTION

HDT also offers a 210 sf Base-X 203 shelter add-on that is equipped with showers, sinks and a toilet.

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