

# 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 Anthrax (inhalational), Chickenpox, Influenza, Measles, Smallpox, Cryptococcosis 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 features an HDT Base-X 203 shelter with two isolation rooms and one anteroom with clear viewing windows into the isolation space. A SteriSpace™ Air Sterilization System provides negative air pressure inside the shelter and uses a proprietary compressive heat technology to kill >99.9999% of airborne pathogens without the use of HEPA filtration. The system also includes a 5-ton ECU and all required ducts.

## SYSTEM COMPONENTS

### HDT Base-X 203 Shelter with Sealed Liner

- Contains two 7' x 10' x 8' patient rooms that are sealed, controlled and monitored.
- One 5' x 14' x 8' anteroom with clear viewing windows into isolation spaces.
- Shelter packs into two packages and can be set up by four personnel in 15 minutes.

Package one: 63" x 30" x 24" 203 lbs

Package two: 63" x 26" x 18" 136 lbs

### SteriSpace Air Sterilizer

- Continuous-duty 250 CFM centrifugal air compressor provides 12 air exchanges per hour, meeting CDC guidelines for airborne infection isolation.
- Pressure is controlled to create negative pressure area(s)
- Air treatment temperature of 240°C destroys >99.9999% of biological pathogens.
- No HEPA filtration means there is no risk of exposure from contaminated filters and no filter disposal issues.
- 5 HP, 3 phase, 60Hz, 208V motor that draws 4.5kW power at steady state.
- The digital, programmable controller can be connected to a PC / laptop to monitor system performance.



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## BASE-X 203 SHELTER

- Two isolation rooms – 7'W x 10'L x 8'H, sealed, controlled and monitored, and large enough for chairs, bed, or medical equipment storage.
- One anteroom – 5'W x 14'L x 8'H, with clear viewing windows into isolation spaces.
- Shelter sets up in 15 minutes with four personnel.



Two isolation rooms are easily viewed from the anteroom which has generous space for equipment or personnel.

## STERISPACE™ AIR STERILIZATION SYSTEM

- Continuous-duty 250 CFM centrifugal air compressor provides 12 air exchanges per hour, meeting CDC guidelines for airborne infection isolation.
- Patented process of compressive heating destroys >99.9999% of airborne biological pathogens.
- Filterless system means no worker exposure to biohazardous HEPA filters and no filter disposal problems.
- 5 HP, 3 phase, 60Hz, 208V motor that draws 4.5kW power at a steady state.
- The digital, programmable controller can be connected to a PC / laptop to monitor system performance.
- System dimensions – 45.25" x 33.75" x 34.5", 500 lbs., with forklift pockets to aid movement / placement.
- Tested to operate in 0°F to 125°F conditions, 2 inches of rain per hour, high wind load and dusty conditions.
- Rugged construction protects the system from vibration, allowing it to be transported long distances over rough terrain.



Above: Clean air is cooled through a patented heat exchanger that saves energy.

Right: A remote control allows for operation of the system while inside the shelter.



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