

# Containerized BIO-CONTAINMENT Systems



## Features

- Stainless Steel Chamber Door
- Handles Rapid Decompression
- Containment of Diseases
- DOD Fly Safe Certified
- Leak Tight



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## CBCS Exterior



### Patient Treatment Area

*Contains litters and basic medical equipment for patients and supports strict biosafety best practices.*

- Patients are loaded directly into this area
- Surfaces and components designed with decontamination in mind
- Negative air pressure to outside environment
- Environmental air safety controls with HEPA filtration
- CCTV and intercom
- Waste management
- Decontamination during treatment and during transition between sections
- Toilets with removable privacy curtains
- Lowest air pressure region of the CBCS
- Video monitoring fed to Medical Staff Room and outside of the CBCS
- Epoxy coating compatible with multiple decontamination approaches (VHP, CIO<sub>2</sub>)
- Removable seating, litters, and all equipment racks allow for rapid installation and removal of medical monitoring/treatment equipment
- Gasket sealed doors (airlock)

### Anteroom

*Provides medical staff working in pairs the ability to don and doff personal protective equipment (PPE). Includes facilities for decontamination and clean-up as well as storage for medicines and therapeutics, medical devices, and supplies.*

- Transition area for staff to enter/exit patient treatment area
- Intermediate level pressure region of the CBCS
- Epoxy coating compatible with multiple decontamination approaches (VHP, CIO<sub>2</sub>)
- Supplies for donning/doffing of PPE, medical supplies available, and staff decontamination equipment to allow transition
- Gasket sealed doors (airlock)
- Power switches to switch from aircraft power to battery
- Emergency lights in each room
- Glow-in-the-dark signage

### Medical Staff Room

*Clean area for medical staffers upon exiting the hot and warm chambers, while still maintaining biosecurity for the remainder of the aircraft. Medical staffers have access to communications equipment as well as food, water, and other essentials.*

- Seating for two staff
- Toilet
- Highest level pressure region of the CBCS (still negative to aircraft)
- Staff are able to operate without PPE in this area, and rest off-shift

Used for transporting COVID-19 patients from Princess Cruise Ship in Japan



Courtesy of Philip and Gay Courter/via REUTERS