The IcoRoom™ Portable Anteroom System
Detailed Specifications

IcoRoom Portable Anteroom System—Frame
- Lightweight, collapsible frame—45 lbs.
- Two-piece top frame assembly with foam gasket for vertical stability
- Flat floor truss
- Sturdy, non-skid polyurethane wheels
- Collapsed dimensions—12"x12"x66"
- Extended dimensions:
  - Footprint: 34" x 61"  
  - Height variable from 7’0" to 10’6"

IcoRoom Portable Anteroom System—Envelope
- Lightweight, durable, reinforced polyfabric, flame-rated to U.S. NFPA 701 standard
- Four zippered doors—two wide, two narrow
  - Wide: 48”
  - Narrow: 22”
- Four clear windows—14” x 40”
- Two negative air ports in removable panel format
  - 12.5” round port with drawstring and seal
  - 3.5” smaller port
- Double-reinforced floor
- Clear pouch for infection control/patient information
- Weight: 20 lbs.

IcoRoom Portable Anteroom System—HEPA Negative Air Machine
- Air flow: 200 to 1600 cfm with variable speed control
- Filtration stages:
  - Primary filter—40% Pleated filter
  - HEPA filter—99.99%, .3 micron, individually tested and certified, metal frame, 24”x18”x12”
  - Carbon filter (optional)—OdorGuard mesh or pleated filter, 24”x18”x2” deep
- UVGI lights (optional): 2-High intensity, dual zone, 10.5” J-lamps
- Power requirement: 115V/60 Hz, 10 amp max
- Control Panel: Removable recessed panel with:
  - Continuously Variable Speed controller;
  - Diff. pressure indicator 0-3” W.C to indicate HEPA filter loading
  - UVGI lights On/Off switch and lamps/ballast status LED lights
  - Hour meter with LCD display
- Construction: Aluminum, riveted, silicon sealed
- Size: 26”x20”x46” high with 5” dia. casters (2-swivel, 2 fixed)
- Weight: 120 lbs.
- Connections:
  - Inlet side—10” dia. ring for flex hose
  - Discharge—20”x26” open top

Optional accessories:
- Connection adapter for 12” dia. flex hose on the discharge side
- OdorGuard600 High capacity carbon filter
- OdorGuard750 High capacity carbon/alumina filter

Patented TB Isolation Solution.
Protect Against Airborne TB Transmission Anytime. Anywhere.

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Mintie Technologies is the market leader in designing and developing specialized containment products for airborne particulates, infection control, and biosecurity. The company’s products include the ECU™ and ECU™-line of environmental containment solutions for hospital construction and maintenance and indoor isolation, the IcoRoom™ System for clinical infection control, and HepaLiner air purification and vacuum equipment. Mintie Technologies is affiliated with Mintie Corporation, providers of indoor air quality solutions to the healthcare, industrial and commercial sectors for over 67 years.

A Rare but Growing Threat.
Performing aerosol-generating procedures like bronchoscopy, treating or operating on a patient with known or suspected TB disease may be an infrequent event but TB disease is unpredictable and it happens.

While rates of reported TB disease in the U.S. are at all-time low, the incidence of disease varies greatly and often it can appear when it is least suspected. Also, while the rate of TB disease has been dropping recent analysis by the CDC shows this is leveling off. Another important factor, funding for community TB treatment and control is declining at a drastic rate. This creates the ideal situation for deji vu. There was a dramatic rise in cases of TB in the U.S. in the mid-1980s fueled by emergence of HIV worldwide and loss of funding for TB treatment.*

On top of this there are new reports by the Centers for Disease Control and Prevention (CDC) and the World Health Organization (WHO) of a 20 percent increase in new, extensively drug resistant strains of M. tuberculosis (XDR-TB) that cause a high mortality. Now more than ever a renewed awareness and attention to prevention is needed.

In December 2005 report, Guidelines for Preventing the Transmission of Mycobacterium tuberculosis in Health-Care Settings, the CDC specifies recommendations that hospitals should implement as early as possible for a suspected case of TB disease that presents at a healthcare facility to keep airborne infectious droplet nuclei (AIDN) from spreading to other patients, personnel and visitors. These recommendations emphasize administrative and environmental containment controls as the most important parts of a facility TB prevention program. The IcoRoom facilitates a rapid response to contain AIDN that carry the TB bacillus.

IcoRoom is the only airborne infection control system that simulates the isolation effectiveness of permanent anterooms and gives you the setup flexibility and relative low cost of portable isolation/air cleaning equipment.

IcoRoom Applications: Operating Rooms. Because ORs are already mandated by code to be at positive air pressure to the surrounding space, IcoRoom improves protection of patients and personnel against exposure by pulling air in the OR to the IcoRoom and filtering it out of the environment. This effectively contains any AIDN that may be released from the patient during surgery on long tissue or irrigation of a tuberculous disease. The HEPA-filtered negative air machine both maintains proper negative air pressure and filters out the M. tuberculosis bacteria, returning the filtered air to the corridor.

Procedure Rooms. The same capabilities that make IcoRoom effective for ORs can also apply to isolating various patient treatment areas and adjacent corridors.

Any airborne disease presents a challenge when the patient needs surgical or other aerosol generating care. The CDC has identified permanent anterooms (standard anterooms) in combination with an airborne infection isolation room (AIIR) as one strategy to help contain TB bacilli.

IcoRoom Portable Anteroom System is a clinically-proven and tested solution to this occasional yet serious infection control challenge. IcoRoom combines a collapsible, portable anteroom with a high-volume, high-efficiency HEPA filtered negative air machine that can contain airborne TB.

IcoRoom accomplishes this by pulling air in any indoor area down away from breathing zone of people in this space into the anteroom where it is filtered and clean air is discharged. This creates a temporary environment of clean air around the patient care treatment area.

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Operating rooms can be converted into temporary contamination control rooms using IcoRoom. IcoRoom can, with one additional installation step, also be used to convert any standard patient room or other contained space in your hospital into a temporary isolation room. You simply seal off all return-air ducts in the room, so that contaminated air is not recirculated back into the general hospital ventilation system.

IcoRoom Deliveries Infection Control and Operating Efficiency Benefits for Hospitals:

Complies with CDC TB Prevention Guidelines, 2005
An anteroom equipped with HEPA literature complies with the CDC recommendations for removing M. tuberculosis bacilli from ORs, procedure rooms, and patient rooms. The guidelines also permit the recirculation of HEPA-cleaned air back into the adjacent, occupied spaces.

Simulates Fixed Anteroom – AIIR Performance
Clinical testing has demonstrated that the IcoRoom Portable Anteroom System is as effective as fixed anterooms in isolating AIDN – containing TB without disrupting the important directional air flow within operating rooms. The IcoRoom solution offers an alternative to expensive construction that consumes use of limited space associated with a permanent anteroom.

Eliminates Intrusive Air Scrubbers
In contrast to other portable, freestanding, HEPA filter devices, the IcoRoom functions completely outside the occupied room, so it eliminates the space intrusion, ventilation disruption, and white noise distractions that portable air scrubbers introduce when placed near the surgical field or treatment area. This is especially important in the OR where the goal is to prevent introductions of contaminants into the patient’s wound.

Eliminates Disruptions to Surgery and Procedure Scheduling
IcoRoom enables surgeries and invasive procedures like bronchoscopies to be performed anytime on short notice. The high volume of exhaust that IcoRoom produces enables an operating room or procedure room to be safely returned to service a short time after working on a patient with active TB disease. In otherwords, no need for “contaminated case” OR scheduling.

15-Minute Set-up
Once the IcoRoom envelope is installed on the collapsible frame (in one minute operation), the complete IcoRoom System is easily maneuvered into place and deployed by one person in under 15 minutes. Taken down is just as easy, with smooth two-lock frame collapse. The durable polyfabric envelope is cleaned using standard hospital-approved disinfection procedures, and stores neatly in the accompanying lockable nylon case. Is your facility ready for anemic Flu? The IcoRoom can help to respond to surges of patients with other types of infectious diseases.

IcoRoom is Simple to Deploy and Operate for a Single Room or an Entire Patient Care Unit
First, the IcoRoom portable anteroom is set up in the corridor outside the room to be isolated. Second, the flange on the portable anteroom is secured to the door frame. Third, the HEPA-filtered negative pressure machine is attached to the 12” port on the portable anteroom and turned on.

How the IcoRoom System Functions
Although not a true anteroom, the IcoRoom works similarly by creating an environment that is at a lower pressure than the room being isolated and the surrounding corridor. The extreme negative pressure in the IcoRoom anteroom causes air from inside the room to be blown into the IcoRoom anteroom. The air is then passed through and cleaned by the HEPA filtration unit and discharged safely back into the surrounding space. HEPA filtration is proven to be 99.97% effective in removing particles as small as 0.3 microns, and is consistent with CDC TB Recommendations for removing the TB bacilli from the air.

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**Optional accessories:**
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