

Quick Reference Guide

Minte Environmental Containment Unit (ECU) AnteRoom

Description:

The Environmental Containment Unit (ECU) is a portable collapsible anteroom that provides a safe and convenient method for rapid-response patient isolation during a public health emergency. Pairing the portable collapsible anteroom with a HEPA (High Efficiency Particulate Air) filtered negative air machine creates an airborne infection isolation room. It simultaneously protects the patient, caregiver and general patient population from escaping infectious airborne particulates. By positioning the ECU immediately outside an infectious patient room, the following occurs:

- One door will remain closed at all times, thus preventing infectious airborne particulates to escape.
- The negative pressure source in the ECU will redirect the airflow of both the hospital corridor and the patient room into the ECU, creating a functional airlock.
- The ECU provides a protected area to don and remove personal protective equipment such as gowns, masks, etc.

The ECU has also been designed to safely contain airborne particulates when performing everyday maintenance or construction in patient-occupied areas.

The ECU has 4 *zippered* doors (2 *wide and 2 narrow*) on each side), 4 clear panel windows, 2 negative air ports in 1 removable panel for placement on either side of unit, a double reinforced floor, and a clear pouch to display a work/infection control permit.

The wide zippered door with a collared attachment shall be facing the patient room to facilitate attachment to the patient room door frame. The narrow zippered door without the portal access panel for the negative air machine attachment shall be used as the primary care-give entry and egress. The narrow zippered door with the portal access panel shall be used to connect the negative air machine hose. The wide zippered door opposite the collared attachment shall be closed after set up.

Assembly:

Please see the video that accompanies the unit. The unit can be assembled in 15 minutes. Users, however, must be familiar with the assembly procedure prior to use in an emergency. ***It is recommended that deployment be performed under the strict oversight of the infection control practitioner/team.***

Maintenance:

- There is a static pressure gauge built into the negative pressure air machine, which gives a constant visual indication of the HEPA filter and indicates the need to change it.
- CDC Environmental Infection Control Guidelines (<http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5210a1.htm>) require that every isolation room have its pressurization checked before a patient is placed in the room, and then daily when the room is occupied by an infectious patient.
- The flame-resistant PVC ECU can be cleaned with any standard hospital disinfectant.

Storage:

When collapsed, several units can be easily stored in a 2 ft x 2 ft x 6 ft utility space.

This guide is intended as a quick reference only. Receivers/users assume all responsibility for the proper maintenance and use of this equipment. This guide is not intended as a substitute for manufacturer provided reference materials and user instructions. This guide is available upon request from SMRRC.