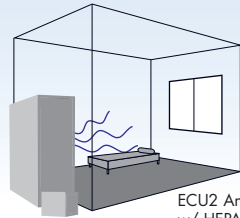


Temporary Mechanical Ventilation

Portable anterooms with HEPA filtered air machines can provide temporary mechanical ventilation for rooms or spaces needing special environmental controls. Scalable, economical and multi-functional, these systems can convert a standard patient room into Airborne Infection Isolation Room (AIIR) equivalent containment for infectious patient isolation or into a protective environment for transplant, chemotherapy and other severely immuno-compromised patients. This flexible solution can also contain Operating, Bronchoscopy and Procedure Rooms to isolate airborne infectious disease patients during surgery or aerosol generating procedures.

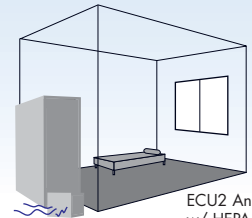
Mintie's ECU2 portable anteroom systems have clinically proven efficacy and provide the benefits of mechanical ventilation without the cost or maintenance requirements.

Positive Pressure Protective Environment



ECU2 Anteroom w/ HEPA filtration

AIIR Equivalent Negative Pressure Isolation



ECU2 Anteroom w/ HEPA filtration



WHO Policy on TB Infection Control in Health-Care Facilities, Congregate Settings and Households, 2009

Population: Health-care facilities
Intervention: Ventilation systems

Overall ranking:
STRONG RECOMMENDATION

Disease Risk of Secondary Transmission (select pathogens and RO*)

- | | | | |
|---------------------|----------|-------------|-----------|
| • M.tuberculosis | variable | • SARS-CoV | 2 - 3 |
| • Chickenpox | 15 - 17 | • Influenza | 1.5 - 3.1 |
| • Measles (rubeola) | 10 - 15 | • Smallpox | 4 - 7 |
| • Aspergillus spp | variable | | |

*RO = the number of secondary cases from a single index case of infection in a totally susceptible population

Natural Ventilation



Benefits

- Low Cost
- Can achieve required Air Changes per Hour (ACH)

CONDITIONAL RECOMMENDATION

Disadvantages

- Difficult to control (depends on wind and temperature)
- No control over direction of airflow
- Sufficient permanent openings (e.g. windows and vents)
- Limited applicability (only suitable in a few locations globally)



Mechanical Ventilation



Benefits

- Suitable for all climates, if properly designed, installed, maintained and operated
- Mechanical ventilation may allow temperature control
- Mechanical ventilation allows control of direction of airflow

CONDITIONAL RECOMMENDATION

Disadvantages

- Requires expertise
- Requires maintenance
- Requires electricity
- High installation cost

