

# IsolationAir®

An Air Innovations Product

## PORTABLE CONTAMINATION CONTROL UNIT



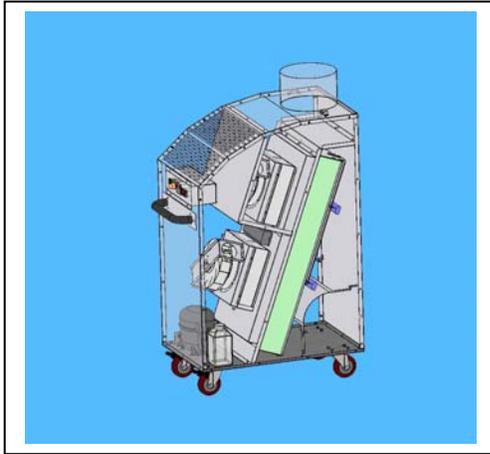
***For Surge, Seasonal or Operational Needs***

***Healthcare \* Emergency Preparedness  
Supplementary Filtration \* Spot Heating/Cooling***



- Creates negative or positive pressure, quickly and easily
- Combines pre-filter, dual UVC germicidal lights and a 99.99% HEPA filter for optimal air purification against many airborne biological contaminants, mold, bacteria and viruses
- Provides air conditioning for patient and staff comfort
- Isolates room from central system to limit potential of cross-contamination
- Compact, self-contained and portable, using standard 110-volt outlet
- Some applications for use:
  - hospital rooms (e.g., burn, trauma, wound, infectious disease)
  - nursing homes
  - waiting rooms
  - asthma clinics
  - correctional facilities
  - quarantine centers
  - emergency shelters

## ***IsolationAir is Effective and Versatile***



***Principles of use:*** Air entering system passes dual ultraviolet germicidal lights to kill most microorganisms. Air then passes through a HEPA filter with 99.99% efficiency for particles greater than 0.3 microns.

Air Innovations, a leading provider of specialty environmental control solutions since 1986, developed IsolationAir in cooperation with SUNY Upstate Medical University's Department of Emergency Medicine and Center for Emergency Preparedness. IsolationAir addresses the nation's severe shortage of isolation, trauma and burn care beds and helps the nation be better prepared to meet surge capacity for pandemic influenza.\* IsolationAir can be quickly and easily configured for use as:

- a negative pressure unit to create infectious disease isolation rooms to prevent airborne spread of such diseases as influenza, TB, SARS and measles
- a positive pressure unit to create protective environments for burn and immuno-compromised patients

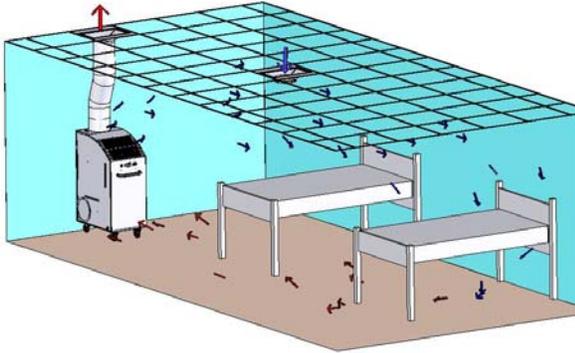
IsolationAir meets or exceeds specifications for isolation space established by the Centers for Disease Control, American Institute of Architects, and American Society of Heating, Refrigeration and Air Conditioning Engineers when used in an appropriately sized room. \*\*

IsolationAir combines prefilter, dual UVC lights and a 99.99% HEPA filter for optimal air purification and pressure control, *plus* packages air conditioning into a portable system for patient and staff comfort. It is the only such comprehensive system on the market. IsolationAir costs considerably less than building and renovating a dedicated isolation room, and can be easily wheeled into most any location for immediate deployment to meet filtration, pressurization *and* temperature requirements.

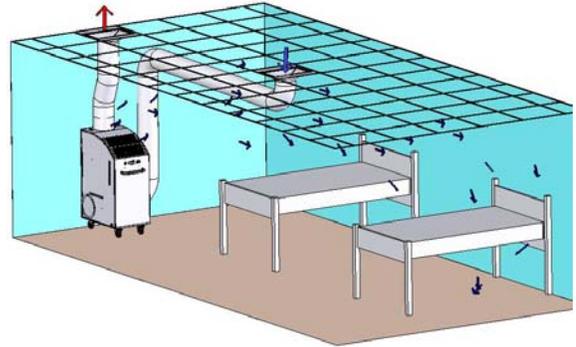
\* U.S. Department of Health and Human Services critical benchmarks, May 2004, #2-2, 2-9 and 6.

\*\* Conforms to CDC guidelines for isolation and AIA recommendations for Airborne Infectious Isolation (AII). CDC and AIA specs for protective environments and airborne infections include: 0.01" minimum pressure differential between room and adjoining spaces, 12 minimum total air changes per hour (new construction), room temperature 75°F.

## ***Installing IsolationAir is Quick and Easy***



*Negative Pressure Room Set-Up*



*Positive Pressure Room Set-Up*

1. Roll unit into room to be pressurized.
2. Connect flex duct mounted on top of the IsolationAir unit to the ceiling return air grille with universal grille adapter that is provided with unit.
3. Negative pressure: close off supply air grille with universal grille adapter and snap cover provided with unit.  
Positive pressure: connect one end of a separate flex duct to the supply air grille with universal grille adapter and connect the other end to the bottom inlet on the IsolationAir unit.
4. Check for other air exhaust or leakages in room, seal closed (e.g., bathroom exhaust, open windows).
5. Plug into emergency outlet and turn on.
6. Verify pressurization with tissue.  
Negative pressure: Tissue will swing into the room when held in front of the crack under the door.  
Positive pressure: Tissue will swing away from the room when held in front of the crack under the door.



*Set up requires only a ladder to reach the ceiling, and Phillips head screwdriver.*



*Universal grille adapter and covers are provided and easily removed for installation. Fits 2x2 foot ceiling grid.*



*Ductwork for both negative and positive applications is included. Length may be customized according to customer's application.*



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### ***Technical Data/Standard Features***

#### **CAPABILITIES**

Cooling Capacity	Nominal ¼-ton (3000 BTU), R-134a refrigerant
Heating Capacity	Optional 1 KW electric heating element
Final Filtration	HEPA 99.99% efficient to 0.3 microns; MERV rating 18; filter 8 x 36"
	All-recirculated and exhausted air is HEPA treated
Pre-Filter	Washable media @ 10 pores per inch
Room Airflow	12 air exchanges per hour minimum via HEPA filters; ACH based on maximum room size 375 SF with 8-foot high ceiling
	Treats 600 CFM of air when connected with ductwork provided
Condenser Airflow	Exhausted to return air grille or directly outside
UV Lights	Dual, 36-watt bulbs upstream of HEPA
Ambient Range	Unit is not designed to operate in an ambient environment exceeding 90°F

#### **CONTROLS**

Temperature Control	Set point range 65-80°F; user adjustable; electronic controller
Hour Meter	Total run time
Service Light	Flashing indicator light at service intervals
On/Off Switch	Rocker

#### **UTILITIES**

Electrical	110 volts /1 phase/60 hertz; 15 amps
Condensate	32-ounce internal bottle (no drain connections are required)

#### **PHYSICAL**

Dimensions	30" deep x 20" wide x 48" tall
Weight	125 pounds
Cabinet	Powder coated aluminum, ocean blue
Power Cord	Factory-installed LCDI cord (leakage current detection interrupter), rated for 15 amp protection
Casters	4" wheels, front locking

#### **CERTIFICATIONS**

ETL listed UL 484 STD

#### **WARRANTY**

One year for workmanship and 90 days for labor

*Manufacturer reserves right, without notice, to make changes to specifications at its sole discretion.*

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