

DEMISTIFIER™

V500/V500UV

Portable and Ceiling Mounted HEPA Filtration Systems



*Floor
Configuration*



Ceiling Configuration

**Create TB Isolation Rooms for one tenth
the cost of major construction**

Optional UV Germicidal Lights

**Remove Noxious Odors and Fumes
Released During EEG Connections and
Other Common Procedures**



Peace Medical, Inc.

Serving the Medical Community for over 25 Years

DEMISTIFIER™ HEPA Filtration Systems

Today with the heightened awareness of airborne infectious agents, creating and maintaining negative pressure airborne isolation rooms has become an important component of many hospital Emergency Disaster Response Plans. Designating and utilizing these rooms is the best way to protect staff and facility against contamination from outside sources. Unfortunately, most facilities are unable to dedicate enough rooms to fulfill the need, and the cost of building them is often prohibitive.

The Demistifier V500 is an inexpensive solution to the shortage of negative pressure rooms. These units can retrofit virtually any room into a negative pressure isolation area and are easily installed by

in-house staff in a few hours time. After installation, the V500 can be turned on or off as needed, eliminating the expense of continually maintaining negative pressure in a room not occupied by a potentially infectious patient.

The small size of the V500, allows for an unobtrusive floor installation, or the unit can be installed above a drop ceiling when space is at a premium.

Typical Areas of Use:

- Hospitals • Pharmaceutical Industries
- Out Patient Waiting Rooms • Laboratories
- Emergency Rooms • Computer Centers
- Bio-Hazard Abatement

Portable Floor Unit

The floor configured Demistifier V500 is designed to be used as a HEPA filter recirculation unit or as a portable negative pressure device (see Figure 1). The unit can be rolled into the areas of a facility selected for isolation and connected to preinstalled flex ducting. A negative pressure room is created by turning on the system with the return closed.



ODOR AND FUME CONTROL

Equipped with special filter systems, the V500 can be used to remove powerful "collodion" odors released during the attachment of EEG sensors. The unit is also effective in removing potentially harmful cidex/glutaraldehyde fumes from the ambient environment.

FEATURES:

- No installation necessary • Low electrical consumption
- Easily adaptable for permanent installation
- Virtually maintenance free • Plugs into 110/120 outlet
- Variety of filter options offered
- Optional UV Germicidal light available

Ceiling Mounted Unit

The ceiling configured Demistifier V500 is designed for installation into existing duct work to create a negative pressure room (see Figure 2). Two return registers are placed in a drop ceiling and connected to the HEPA unit via flex duct. Air is drawn through the unit and exhausted to the outside or into another room or hallway. Because all exhausted air has been filtered, it can be vented back into the building if desired. This configuration is best used in rooms where floor space is minimal such as Emergency Departments.



FEATURES:

- Compact size
- Minimal installation necessary
- No duct work required
- Low electrical consumption
- Virtually maintenance free
- Variety of filter options offered
- Optional UV Germicidal light available

EFFICACY OF THE DEMISTIFIER FILTER PACK AGAINST COMMON RESPIRATORY BACTERIA

Organism	cfu/ml	No. ml aerosolized to filter	Pressure	Total cfu Challenge to filter	Recovery	Recovery of typical colonies per agar strip	Percent Retention
T.B.	10,000	10	0.3" H ₂ O	10 ⁵	Dubos oleic agar (Vent A)	None	>99.9*
Streptococcus	10 ⁸	9	0.3" H ₂ O	9x10 ⁸ (Ca. 109)	TSA at Vent B	None	>99.9*
A. niger (mold spores)	10 ⁷	8	0.35" H ₂ O	8x10 ⁷ (Ca. 108)	TSA at Vent B	None	>99.9*
C. albicans (yeast)	10 ⁷	8	0.3" H ₂ O	8x10 ⁷ (Ca. 108)	TSA at Vent A	None	>99.9*

TSA = Trypticase Soy Agar; Dubos oleic agar = special medium for growth of TSB; cfu = colony forming units, a basic unit of growth, a basic population unit.

*Note: Zero recovery taken to indicate a retention statistically approaching 100% but conservatively noted as >99.9%.

Call TOLL-FREE 1-800-537-9564 ■ Fax: 973-672-3404 • Email: peacemed@aol.com

DEMISTIFIER™ HEPA Filtration Systems

Control Panel

The V500 control panel contains 3 main items. On the left, a switch for the optional UV Germicidal Lights. In the center, a Magnahelic Gauge which measures inches of column water, indicating when filters should be replaced. At right is the 3-speed fan switch: Low, Medium, High and Off.



Specifications

HEPA Efficiency	99.97
Speed Adjustment	3-speed
Air Flow in CFM	500-400-300
Power Requirements	115/1/60
Amps	5
Dimensions	15" x 15" x 38.5"
Housing	Stainless Steel
Pre-Filter Size	(2) 14" x 14"
HEPA Size	12" x 12" x 12"
Weight	80 lbs.



Optional UV Germicidal Lights

The V500 floor or ceiling units can be fitted with an optional UV Germicidal Light system which works in concert with HEPA filtration to further reduce the risk of airborne contaminants.

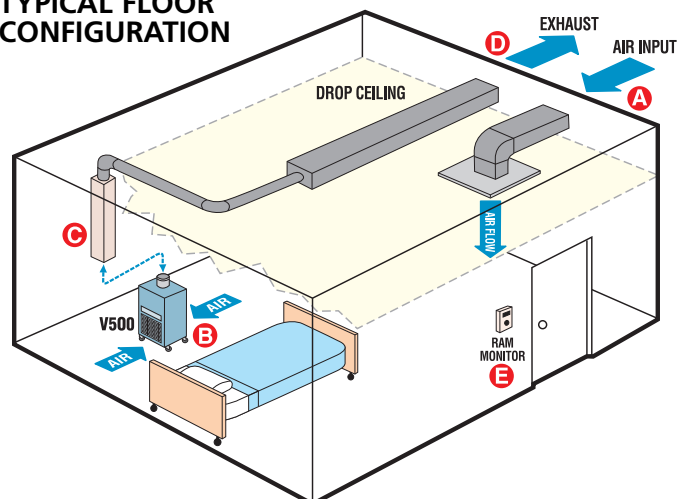
According to the CDC, "UVGI can be used as a method of air disinfection to supplement other engineered controls." – MMWR Vol 43 No. RR-13.

Ordering Information

Catalog No.	Description
V500 Floor Unit	Portable HEPA Filtration System
V500 Ceiling Unit	HEPA Filtration System complete with all necessary installation components including flex ducting, (2) registers and remote control
UV	UV Germicidal Lights (available for either unit)

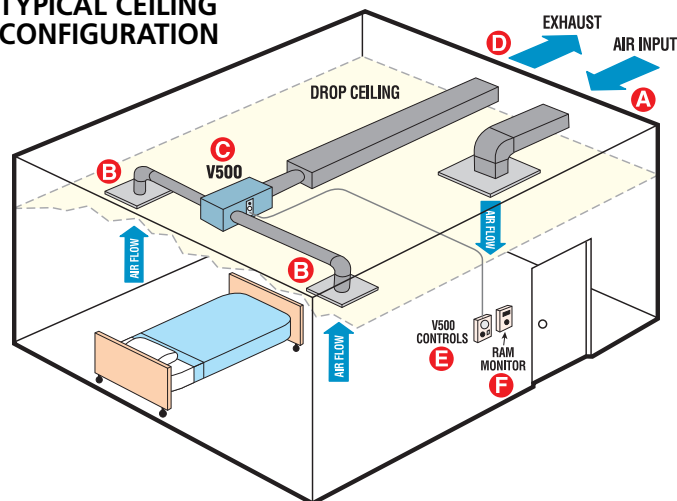
Terms: Net 30. FOB Orange, New Jersey.

**FIGURE 1
TYPICAL FLOOR
CONFIGURATION**



- A. Supply to room from hospital HVAC system.
- B. Twin returns draw air from room to V500 HEPA Filter Unit.
- C. Preinstalled construction point for connection to portable V500 HEPA Filter Unit. This setup allows a single unit to be used in different areas of the facility.
- D. Air can be exhausted to the outside, hallway or back into hospital HVAC system at a cfm higher than the hospital supply.
- E. RAM Room Air Pressure Alarm/Monitor – an independent alarm system that constantly monitors negative pressure and alarms if a hazard condition occurs (see back cover).

**FIGURE 2
TYPICAL CEILING
CONFIGURATION**



- A. Supply to room from hospital HVAC system.
- B. Twin returns draw air from room to V500 HEPA Filter Unit.
- C. V500 HEPA filter fan capable of exhausting 500 cfm at a 99.97% HEPA filtration rating.
- D. Air can be exhausted to the outside, hallway or back into hospital HVAC system at a cfm higher than the hospital supply.
- E. Remote controls for the ceiling unit (can be placed anywhere).
- F. RAM Room Air Pressure Alarm/Monitor – an independent alarm system that constantly monitors negative pressure and alarms if a hazard condition occurs (see back cover).

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Monitor Negative or Positive Pressure Anywhere In Your Facility



**Call Toll-Free
1-800-537-9564
for information on
our complete line
of Room Pressure
Monitor/Alarms**

PEACE MEDICAL ROOM PRESSURE MONITOR/ALARMS

Features:

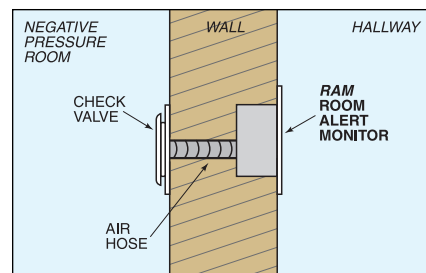
- Measurement of dynamic pressure differential
- Adjustable time delay to allow for opening of doors
- Green, Yellow and Red universal status display
- Audible alarm with mute and automatic reset
- Pressure check valve that assures an alarm will sound if flow reversals occur
- Remote sensors to bypass anterooms
- Optional key switch to permanently mute alarm
- Industrial quality for long term, low maintenance
- Remote alarm signal contact
- Analog contact to interface with building automation computers
- Easy installation and calibration with complete engineering support
- Two year warranty

Meets OSHA, ANSI and ASHRAE requirements

Typical Applications:

Negative Rooms: Patient Isolation Rooms, Bronchoscopy Suites, Autopsy Rooms, Hospital Laboratories.

Positive Rooms: Operating Suites, Protective Patient Isolation Rooms, Radiology, Catheterization Labs.



Typical Installation

THE PROBLEM:
Airborne Infectious Agents

THE SOLUTION:
Cost-Effective HEPA Filtration

**... An Integral Part of
Emergency Response Planning**

PRESORTED
Standard
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