HEPA filtration protection of Health Care Workers from aerosols and infectious diseases as required by CDC and OSHA

Barrier and Negative Pressure Isolation for Emergency Departments and Patient Rooms
OVERVIEW
While headlines such as these may suggest worse case scenarios, they do however show the rapidity of the spread of epidemics and the vulnerability of hospital preparedness. Even Emergency Departments with several negative pressure rooms can be quickly overwhelmed by the influx of potentially infectious patients. These new emerging pandemics are among the challenges that appear to be here to stay. Good infection control techniques are the solution to most contagious disease.

DEMISTIFIER 2000 Series Source Control Systems

Negative pressure and barrier isolation is the best defense hospitals have against the spread of airborne pathogens.

The DEMISTIFIER 2000 has become the industry standard for healthcare worker protection, meeting all CDC and OSHA requirements for high risk procedures.

Each configuration isolates the patient in a vinyl enclosure similar to an oxygen tent. The flexibility of the various canopies allows for optimum patient comfort. Procedures can be performed in a wheelchair, treatment chair, stretcher, bed, exam table and even a crib. Patients can be easily observed through the clear vinyl enclosure, and the system motor is quiet enough to allow normal conversation between caregiver and patient within. The DEMISTIFIER takes up little space and is easily transportable allowing movement to specific treatment areas. Vinyl canopies are inexpensive and disposable.

DEMISTIFIER System uses include:

- Respiratory and barrier isolation
  - Sputum induction • Airborne disease control
- Aerosolized drug treatments
  - Ribavirin (bone marrow transplant patients) • Pentamidine • Aerosolized antibiotics
- Configurations for use throughout facility
  - Emergency department • Respiratory department • Patient room • ICU
- Transport under negative pressure

All DEMISTIFIERS feature:

- 99.99% HEPA filtration
- Easily portable and adaptable configurations for a variety of procedures
- Sturdy steel construction with easy-change filter system
- No installation requirements and is easy to operate, clean and maintain

STANDARD CONFIGURATIONS
These DEMISTIFIER configurations are designed for sputum induction and aerosolized drug treatments (Ribavirin and Pentamidine). The DEMISTIFIER 2000 unit combined with the 2001 Chair Canopy is for use with a treatment chair or wheelchair. The chairs can be in an upright or semi-reclined position. The DEMISTIFIER 2000 unit combined with the 2005 Bed Canopy provides an isolation enclosure for bed procedures. The DEMISTIFIER 2000 with 2006 Canopy and 2007 Crib Mast and Boom Assembly components can be used for crib applications. This configuration also provides respiratory isolation for infectious infants and allows for aerosolized drug treatments.
The DEMISTIFIER System Adapts for Ribavirin Treatments and Respiratory Isolation

The DEMISTIFIER can also be used for crib applications. It is available with a taller mast and shorter boom support to accommodate cribs with croup frames, to treat RSV with ribavirin. This configuration also provides respiratory isolation for infectious infants.

The wheels on the DEMISTIFIER allows it to be moved from treatment room to nursery by one person for greater convenience. No tools are necessary to change the mast and boom.

A special crib canopy that has openings on three sides is used to provide airflow and access to the patient during longer term treatments.

The DEMISTIFIER scavenging system has been tested by NIOSH under clinical conditions with extremely positive results. NIOSH report HETA 91-104-2229 and HETA 91-0187-2544 are available upon request.

Specifications

The DEMISTIFIER 2100 is also an ideal interim device when major construction projects disrupt hospital routine. It is being used in emergency departments, recovery rooms, ICUs and ordinary patient rooms.

Independent studies have shown the efficacy of Peace Medical’s filter pack in removing airborne drug particles and respiratory pathogens.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Total cfu Challenge to Filter</th>
<th>Recovery of Typical Colonies per Agar Strip</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB</td>
<td>$10^5$</td>
<td>None</td>
</tr>
<tr>
<td>Streptococcus</td>
<td>$9 \times 10^8$ (Ca. 109)</td>
<td>None</td>
</tr>
<tr>
<td>A. niger (mold spores)</td>
<td>$8 \times 10^7$ (Ca. 108)</td>
<td>None</td>
</tr>
<tr>
<td>C. albicans (yeast)</td>
<td>$8 \times 10^7$ (Ca. 108)</td>
<td>None</td>
</tr>
</tbody>
</table>

**Electrical:**
- 115v AC, 60 Hz.
- 1.5 amp circuit breaker.
- 9 foot power cord.

**Shipping Weight:** 45 pounds.
Easy Change Filter System
The filter pack consists of three filters. The HEPA (High Efficiency Particulate Air) filter is manufactured from a micro fiber silicate, and individually tested to meet The Institute of Environmental Safety Standard RP-CC-001-86. This filter is 99.99% effective in removing airborne particles 0.3 microns in diameter.

The prefilter is positioned in front of the HEPA filter and is designed to capture larger airborne particles, thereby extending the life of the HEPA filter. The carbon filter is then placed behind the HEPA to help absorb odors and vapors.

Ordering Information
Terms: Net 30. FOB Orange, New Jersey

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>DEMISTIFIER complete with HEPA, carbon, prefilter, motor, mobile stand and 6 standard size canopies.</td>
</tr>
<tr>
<td>2001</td>
<td>2 mil chair canopy. For use with wheelchair or treatment chair in upright or semi-reclined position.</td>
</tr>
<tr>
<td>2003</td>
<td>Replacement Demistifier prefilter.</td>
</tr>
<tr>
<td>2004</td>
<td>Replacement Demistifier carbon filter.</td>
</tr>
<tr>
<td>2005</td>
<td>2 mil bed canopy. Covers upper body, tucks in under mattress with air flow opening directly opposite filter pack.</td>
</tr>
<tr>
<td>2006</td>
<td>2 mil crib canopy for use with Cat. No. 2007.</td>
</tr>
<tr>
<td>2007</td>
<td>Crib mast and boom assembly.</td>
</tr>
<tr>
<td>2100</td>
<td>Negative Pressure Bed Enclosure. Includes DEMISTIFIER Unit, isolation bed frame &amp; four 4 mil vinyl enclosures that have zippers at all 4 corners and 2 service flaps on each long side.</td>
</tr>
<tr>
<td>2101</td>
<td>Isolation bed frame only for use with Cat. No. 2100.</td>
</tr>
<tr>
<td>2102</td>
<td>Replacement 4 mil vinyl bed enclosure for use with Cat. No. 2100.</td>
</tr>
<tr>
<td>2514</td>
<td>Full stretcher enclosure canopy.</td>
</tr>
<tr>
<td>2515</td>
<td>Half stretcher enclosure canopy.</td>
</tr>
</tbody>
</table>

DEMISTIFIER Control Panel
The control panel consists of a 1.5 amp On/Off switch with circuit breaker designed to switch off if there is an internal failure. The control panel also includes LEDs to indicate required filter changes.

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DVD available upon request