AIRWAY CLEARANCE

VORTRAN PercussiveNEB®

- New improved modulator operates more consistently
- Intrapulmonary percussive aerosol nebulizer
- Mucus clearance (i.e. cystic fibrosis, COPD and post-op atelectasis)
- High aerosol output
- Automatic PEP
- Single patient, multiple use
- Pressure dial adjustable between SOFT to HARD setting
- Home or hospital use
- High flow compressor available for home use

The new improved next generation PercussiveNEB® device is VORTRAN’s high frequency intrapulmonary percussive nebulizer. It offers unique single patient, multiple use, high frequency, intrapulmonary percussive treatments. The PercussiveNEB® is a safe and effective method of airway clearance. It is easy to use and preferred by cystic fibrosis patients. In a study for the treatment of atelectasis in post-operative cardiac surgery patients, the PercussiveNEB® is suggested to be a more effective and efficient use of departmental resources than traditional bronchial hygiene procedures. Improvements in ease of use, durability, dependability and performance attributes have resulted in a device that is user friendly, reliable, and adjustable to patient needs. The pressure dial on the PercussiveNEB® allows users to adjust pressure range and is easy to operate within the source flow range. The PercussiveNEB® is designed to oscillate at higher frequencies of 11 to 30 Hz (about 660 to 1800 cycles per minute) to mobilize mucus from the lungs in patients with retained secretions.

Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
<th>Case Qty</th>
<th>O₂ Tubing Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>VORTRAN PercussiveNEB®</td>
<td>PNB-4030</td>
<td>10 each</td>
<td>7’</td>
</tr>
<tr>
<td>VORTRAN PercussiveNEB® Mouthpiece</td>
<td>4035S</td>
<td>1 each</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Operational Characteristics

- Suitable patient body weight.............................................. 10 kg and above
- Typical percussive oscillation frequency............................... Up to 30 Hz (1800 per minute)
- Device flow............................................................................. 43 to 73 L/min
- Fractional inspired oxygen (FiO₂)........................................ Greater than 80% when supplied with 100% O₂
- Operating environmental limits............................................ 5 to 40° C
- Storage environmental limits................................................ -20 to 60° C
- Patient connection............................................................... Mouthpiece (Optional - Soft)
- Gas inlet.................................................................................. DISS connection
- Nebulizer reservoir size.......................................................... 20 mL
- Approximate dimensions......................................................... 10” x 8” x 3.5”
- Approximate weight............................................................... Approximately 200 grams
VORTRAN-IPPB™

- Single patient, multiple use
- Uses standard hospital flowmeters delivering maximum flows of 40 L/min
- Large 20 mL nebulizer reservoir
- High aerosol output
- Secure DISS gas inlet connection
- More cost effective than a conventional IPPB machine
- No capital equipment cost
- Easy to use, for hospital or home

Operational Characteristics

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
<th>Case Qty</th>
<th>O₂ Tubing Length</th>
<th>Pressure Manometer</th>
<th>Water Trap</th>
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<tbody>
<tr>
<td>VORTRAN-IPPB™ only</td>
<td>IP-4020</td>
<td>10</td>
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<td>VORTRAN-IPPB™ w/Water Trap</td>
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<td>7’</td>
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<tr>
<td>VORTRAN-IPPB™ Mouthpiece</td>
<td>4035S</td>
<td>1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Ordering Information

Suitable patient body weight: 30 kg and above
Adjustable peak pressure range: 20 to 50 cm H₂O
PEEP: 2 to 5 cm H₂O
Supply pressure: 50 ± 5 PSIG
Aerosol output during inhalation: Up to 1 mL/min

Hi-Flow 70™ Compressor

- Designed for high flow applications
- Compact and easy to store
- Ideal for home, clinic, and hospital use
- Standard 120 VAC
- Operates the VORTRAN-IPPB™ and PercussiveNEB™

Operational Characteristics

Dimensions: 16” x 7.25” x 12.5”
Weight: 28 lbs
Shipping weight: 40 lbs
Electrical: 120 VAC. 60 Hz, 5 amp, single phase
Outlet: Grounded 9/16-18 threaded male fitting
Performance: 65 L/min ± 10 L/min @ 35 PSIG