This guide provides you with basic instructions on how to set up and operate the Precision Flow® Hi-VNI. Before operating the Vapotherm Precision Flow® Hi-VNI, please review the Instructions for Use which can be found at our website www.vapotherm.com and on the USB drive provided in the Start-Up Kit.
### Cartridge Flow Rates

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Cannula Type</th>
<th>Operational Flow Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Flow</td>
<td>Adult, Pediatric/Adult Small, Pediatric Small*</td>
<td>5-40 liters per minute (L/min)</td>
</tr>
<tr>
<td>Low Flow</td>
<td>Premature, Neonatal, Infant, Intermediate Infant, Solo, Pediatric Small*</td>
<td>1-8 liters per minute (L/min)</td>
</tr>
</tbody>
</table>

*Pediatric Small cannula is intended to deliver flow rates of 1-20 L/min

### Indications, Warnings and Cautions

**Primary Indications:**

Precision Flow® Hi-VNI is intended for use to add warm moisture to breathing gases from an external source for administration to a neonate/infant, pediatric and adult patients in the hospital and subacute institutions settings. It adds heat and moisture to a blended medical air/oxygen mixture and assures the integrity of the precise air/oxygen mixture via an integral oxygen analyzer. The flow rates may be from 1 to 40 liters per minute via nasal cannula.

Precision Flow® Hi-VNI provides high velocity nasal insufflation (HVNI) with simultaneous oxygen delivery to augment breathing of spontaneously breathing patients suffering from respiratory distress and/or hypoxemia in the hospital setting. Precision Flow® Hi-VNI is not intended to provide total ventilatory requirements of the patient and not for use during field transport.

**Contraindications: General:**

- Not appropriate for patients who are not spontaneously breathing, are unable to protect their airway or have anatomic or injury induced blockage of the nasal pathway to the nasopharyngeal space
- Not for treating OSA and snoring
- The Precision Flow® Hi-VNI is not for field transport
- The Precision Flow® Hi-VNI is MRI unsafe. Do not use it in an MR environment.

Additional patient monitoring including pulse oximetry is necessary if the Precision Flow® Hi-VNI is used to give supplementary oxygen.

**Precision Flow® Hi-VNI Packaging contains:**

- **Precision Flow® Hi-VNI Unit**
  - Instructions for Use on USB
  - Quick Reference Guide
- **Power Cord**
  - Air & Oxygen Inlet Particulate Traps with Connectors
  - O2 Sensor cell
- **US ONLY - Air and Oxygen Hoses**
  - Quick Set Up Sticker (English speaking countries only)
  - Delivery Tube clip
- **Nurse Call / EMR Communication Cable with three adapter cables (varies by country)**