pNeuton™ A
(Pneumatic Transport Ventilator)

pNeuton (pronounced “new ton”); a small, lightweight transport ventilator designed for use on patients from pediatric to adult in size. pNeuton has simple-to-use controls for volume-targeted or pressure-limited ventilation. With a built-in high output demand flow CPAP system, critical care ventilation needs are optimized for spontaneous and mandatory breaths. Operating without the need of electrical power, the ventilator can care for the most difficult patients from trauma site to the emergency room, for inter-facility transport, wherever the patient may be located. Use pNeuton as your key to an all hazards approach to mechanical ventilatory support. Be prepared for any emergency or loss of electrical power.

Specifications pNeuton A

- Pneumatically operated
- Intended for use on pediatric and adult patients 23 kg and above
- Demand flow system for spontaneous breathing up to 140 L/min
- Pressures displayed on manometer
- Modes of operation: CMV, IMV, CPAP, Pressure Limit
- Mandatory breath flow rate is fixed at 36 L/min
- MRI compatible: up to 3T static field strength, 260 G/cm spatial field gradient, 250 V RF power, shielded
- Weight: 6.5 pounds (3 kg)
- Dimensions: 5” H x 10” W x 7” D (13 x 25 x 18 cm)
- Input gas requirement: 55 psi ± 15 psi (3.8 bar ± 1 bar)
- Meets international standards for transport ventilators:
  - ASTM: Ventilators Intended for Use in Critical Care (F 1100-90)
  - ISO: Lung Ventilators for Medical Use, Part 3 (EN 794-3:1999)

Control Settings

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandatory Breaths</td>
<td>On or Off</td>
</tr>
<tr>
<td>Respiratory Rate</td>
<td>3 to 50 bpm</td>
</tr>
<tr>
<td>Tidal Volume</td>
<td>360 to 1500 ml</td>
</tr>
<tr>
<td>Peak Pressure</td>
<td>15 to 75 cm H₂O</td>
</tr>
<tr>
<td>PEEP/CPAP</td>
<td>0 to 20 cm H₂O</td>
</tr>
<tr>
<td>Oxygen</td>
<td>100% or 65%</td>
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</tbody>
</table>

Audible and Visual Alarms

- All pneumatic system (no batteries)
- Patient circuit disconnection
- Automatic reset when alarm condition resolves
- One minute silence/reset button
- Low oxygen inlet pressure (below 30 psi)
- Remote alarm output

pNeuton™ S

The pNeuton S transport ventilator with CPAP designed for emergency medical professionals

- Face mask CPAP, mask pressure ventilation or volume ventilation with ET-Tube
- Enhanced oxygenation during transport
- Ground or air transport
- Pneumatic design and built tough
- MRI compatible

pNeuton is simple and versatile

pNeuton is simple-to-use controls — Tidal Volume, Respiratory Rate and Pressure Limit — for volume-targeted or pressure-limited ventilation. With a built-in high output demand flow CPAP system, critical care ventilation needs are optimized for spontaneous and mandatory breaths. Operating without the need of electrical power, the ventilator can care for the most difficult patients from trauma site to the emergency room, for inter-facility transport, wherever the patient may be located.

Specifications pNeuton S

- Pneumatically operated for use on pediatric and adult patients >23 kg
- Demand flow system for spontaneous breathing to 140 L/min
- Pressures displayed on manometer
- Modes of Operation: CMV, IMV, CPAP, Pressure Limit
- Mandatory breath flow rate is fixed at 36 L/min
- MRI compatible: up to 1.5 T static field strength, 260 G/cm spatial field gradient, 250 V RF power, shielded
- Weight: 6 pounds (2.7 kg)
- Dimensions: 4” H x 8” W x 6” D (10 x 20 x 15 cm)
- Input gas requirement: 55 psi ± 15 psi (3.8 bar ± 1 bar)
- Meets international standards for transport ventilators:
  - ASTM: Ventilators Intended for Use in Critical Care (F 1100-90)
  - ISO: Lung Ventilators for Medical Use, Part 3 (EN 794-3:1999)

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<tr>
<td>Mandatory Breaths</td>
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<tr>
<td>Respiratory Rate</td>
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<tr>
<td>Tidal Volume</td>
<td>360 to 1500 ml</td>
</tr>
<tr>
<td>Peak Pressure</td>
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Audible Alarm

- Low Oxygen Inlet Pressure (below 30 psi)

Accessories are listed on the following page.

Specifications are subject to change at any time without notice.

*Items on this page may not be available for sale in all states.
pNeuton Accessories

Mobile Stand #DH-21001
A 3 foot, 9 inch high MRI compatible stand designed to hold the pNeuton ventilator. The stand uses large 3 inch wheels to aid in stability and ease of movement. Two “E” size cylinders can be securely mounted on the stand. MRI compatible oxygen cylinders are sold separately, part number 21071. The ventilator attaches to the stand using a mounting plate which allows the user to slide the ventilator on and off the stand for transport.

Travel Bag for pNeuton S #DH-21020
Travel / EMS bag for pNeuton S. Holds one patient circuit with additional side pouch for mask and head strap. Ventilator may be operated while inside of bag.

Manifold System #DH-21055
The MRI compatible manifold system is designed to allow the ventilator to be powered from either a wall source or one of two “E” oxygen cylinders. The key component is the manifold which mounts onto the mobile stand. The manifold uses DISS oxygen fittings with check valves to prevent back flow. There are three input fittings and one output to the ventilator. As oxygen enters any of the three input fittings it can only go to the ventilator. The manifold system comes with 2 MRI compatible “E” cylinder regulators and the following high pressure oxygen hoses — three 18 inch and one 10 foot hose.

Bed Rail Mount #DH-21016
The MRI compatible bed rail mount will allow the pNeuton ventilator to hang from standard critical care bed rails. The mount fits securely onto the rear of the ventilator and provides a sturdy support during patient transport.

PATIENT BREATHING CIRCUITS
#DH-58001 Patient circuit, disposable, adult/pediatric
6 feet long. 15/Box
#DH-58051 Patient circuit, disposable, adult/pediatric
8 feet long. 15/Box

RESOURCES
#DH-97021 User Resource CD, Ventilators Powerpoint presentation, inservice checklist
#DH-97022 User Resource CD, MACS Powerpoint presentation, inservice checklist
#DH-97025 Clinical Training DVD, Ventilators Model A - Set-up and clinical application
#DH-97001 pNeuton Ventilator Operators Manual Model S
#DH-97011 pNeuton Ventilator Operators Manual Model A

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Introducing the EPV100 Portable Ventilator for Mass Casualty Preparedness

Safety Features
- High Airway Pressure Alarm
- Low Airway Pressure/Patient Disconnect Alarm
- Low Source Gas Alarm
- Low Battery Alarm
- Airway Pressure Relief

EPV100 Patent Pending

Specifications
- Tidal Volume: 200 to 1200 ml
- Breaths Per Minute: 8 to 30 (1-second inspiratory time) or 8 to 20 (2-second inspiratory time)
- Unit Run Time: Run time with settings of 650 ml tidal volume and 10 BPM
- D Cylinder: Approximately 47 minutes
- Jumbo D Cylinder: Approximately 85 minutes
- E Cylinder: Approximately 85 minutes
- Hospital O2: Unlimited run time
- Inspiratory Time: 1 second or 2 seconds
- Battery Run Time: 48 hours at room temperature with 2 D batteries required

NOTE: The EPV100 is powered by compressed gas, using 2 D batteries or 10 BPM settings of 10 BPM and 2-second inspiratory time; 2 D batteries required

The Magellan Ventilator
The Magellan Ventilator is pneumatically powered, single-circuit, volume-constant, time-cycled. It utilizes a high-pressure drive with regulated, high internal resistance to control pressure and is considered a non-constant pressure generator. Simultaneously, the Magellan Ventilator produces a flow pattern that is constant in spite of changes in lung mechanics (inspiratory square-wave).

Originally designed, tested and utilized for military field work, the Magellan Ventilator is able to be used in any demanding work environments such as In-Hospital Transport, Air-Mobile Operations, Special Treatment Areas, Operating and Recovery Rooms, Animal Laboratories and Veterinary Medicine.

The Magellan Ventilator is designed with internal simplicity for operations and maintenance. Quick connect features allow the operator to provide for all necessary clinical situations: controlled ventilation, continuous-flow intermittent mandatory ventilation, constant positive airway pressure, as well as being adjustable to inspiratory/expiratory ratios that are infinitely variable. A wide-range pressure relief valve allows for both the prevention of barotrauma and time-cycled, pressure-relieved ventilation.

In standard use, the Magellan Ventilator can be used in conjunction with a variety of face masks, cuffed mask, exhalation filter, and endotrachial and trachostomy tubes.

Humidifiers and air/oxygen blenders of various types can also be used, as the operator finds necessary.

Below are just a few of the demanding work environments where the Magellan Ventilator gets the job done.

- AirMobile
- E.R.
- Special Procedures
- Ambulance
- In-Hospital Transfer
- Anesthesia
- Veterinary Medicine
- Animal Labs
- Special Scanning Rooms
- Recovery Rooms
- Disaster Control

Specifications
- Dimensions: 8 x 5.5 x 5.5 inches
- Weight: 5.0 lbs
- Case Material: Aluminum
- All other Materials: Aluminum, brass and plastic
- Gas Inlet Pressure Range: 30 to 150 PSI
- Tidal Volume Range: 0 to 2.0 L
- Breaths Per Minute: 0 to 60 BPM
- Inspiratory Time Range: 0.2 to 3.0 seconds
- Inspiratory Flow Range: 0 to 100 LPM
- Pressure Relief Range: 0 to 120 CMH20
- IMV/CPAP Continuous Flow Range: 0 to 60 LPM
- PEEP/CPAP Range: +1 to +60 CMH20
- Internal Compliance: 0 CMH20
- Air/Oxygen Blenders: Any capable of producing from 30 to 60 PSI
- Exhalation Valves: Oceanic-Pin 15.0 reusable
- MRI: to 4.7 TESLA
- Warrant: 5-Year Unconditional Warranty

Battery Compartment
Patient Circuit Connection
Anti-Suffocation Valve

EPV100 Patent Pending

Whether you use a new Omni-Vent Ventilator in an EMS environment or a hospital setting, you’ll discover right away that it’s no ordinary ventilator.

Omni-Vent Ventilators were originally designed for military use in the field. This severe testing ground demanded flawless high performance, and the Omni Vent ventilators delivered. Today, Omni Vent Ventilators deliver superior performance in demanding environments such as Magnetic Resonance Imaging, Airmobile Operations, Emergency Medicine, In-House Transport and Anesthesia. It is much more durable than any other ventilator on the market and comes with a one-year warranty. It’s easier to use, too.

Omni-Vent features the lowest gas consumption of any pneumatically powered ventilator while delivering the unique flexibility of volume constant, time cycled and inspiratory flow variable options.

The Omni-Vent, utilizing a high pressure drive with a high internal resistance to control pressure, is considered a non-constant pressure generator. Simultaneously, the ventilators produce a flow pattern that is constant despite changes in lung mechanics (inspiratory square-wave).

In standard use, the Omni-Vent may be used in conjunction with a variety of face masks, cricothyroid tubes, endotracheal and tracheostomy tubes, as well as jet tubes and bronchoscopes. Humidification and air/oxygen blenders may be incorporated as needed.

All Omni-Vent Ventilators are designed with internal simplicity to provide reliable performance and ensure easy usage. Quick-Connect features give you versatility to provide for all clinical needs:

- Controlled ventilation
- Continuous flow intermittent mandatory ventilation
- Constant positive airway pressure
- High frequency and jet ventilation

Additionally, Omni-Vent Ventilators are adjustable to inspiratory/expiratory ratios that are infinitely variable, and a pressure relief valve allows both the prevention of barotrauma and time-cycled, pressure relieved ventilation.
Ventilators - Transport

AutoVent™ 4000 Series Transport Ventilator with optional CPAP

The AutoVent 4000 Series provides the capabilities of ventilation and CPAP in one system.

By adding any combination of Air Mix Mode, Electronic Alarm Package or CPAP to the basic model, you can customize the AutoVent 4000 for your specific needs.

A Manual Breath Button and Anti-Breath Stacking are standard on all models. Optional air mixing provides 65% oxygen concentration for extended cylinder life.

Independent settings for the critical ventilation parameters of Breaths Per Minute, Inspiratory Time, Tidal Volume, and Airway Pressure Relief offer the EMT a wide range of patient applications to meet a majority of critical emergency care situations. A large color-coded Manometer Gauge along with a full set of alarms ensure optimal performance and patient safety. Pneumatically powered ... durable and light; all basic models weigh less than 5 lbs.

AutoVent™ 2000/3000 Transport Ventilator

The first ventilator designed expressly for the EMS professional, the AutoVent 2000 provides independent controls for tidal volume and BPM. The AutoVent 3000 offers additional inspiratory time settings for the widest range of patient applications.

Both the 2000 and 3000 are designed to meet ventilatory needs for critical emergency situations and in-hospital transport, as well as sophisticated air and ground transport.

<table>
<thead>
<tr>
<th>#HU-L461</th>
<th>#HU-L460</th>
<th>#HU-L461-150</th>
<th>#HU-L460-150</th>
<th>#HU-L040130</th>
<th>#HU-L523</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoVent 3000: 2-second model. Includes Control Module, Patient Valve with Supply Tubing, 6' O₂ Hose and Non-Rebreathing Valve to attach PEEP with Connecting Tubing, (PEEP sold separately) For adult or pediatric use.</td>
<td>AutoVent 2000: 2-second model. Includes Control Module, Patient Valve with Supply Tubing, 6' O₂ Hose and Non-Rebreathing Valve to attach PEEP with Connecting Tubing, (PEEP sold separately) For adult use only.</td>
<td>AutoVent 3000: 1.5-second model. Includes Control Module, Patient Valve with Supply Tubing, 6' O₂ Hose and Non-Rebreathing Valve to attach PEEP with Connecting Tubing, (PEEP sold separately) For adult use only.</td>
<td>AutoVent 2000: 1.5-second model. Includes Control Module, Patient Valve with Supply Tubing, 6' O₂ Hose and Non-Rebreathing Valve to attach PEEP with Connecting Tubing, (PEEP sold separately) For adult use only.</td>
<td>AutoVent Soft Case, Limb Attachment</td>
<td>AutoVent Portable System for D or Jumbo D Cylinders: #HU-461 AutoVent 3000, L270-220 Oxygen Regulator, Adult and Child Cuffed Masks, handwheel, #HU-040124 Soft Pack Case. (Cylinder not included.)</td>
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