

Critical Care Ventilation for hospital, EMS, air transport and disaster preparation



pNeuton™ A Pneumatic Transport Ventilator

Applications —
Invasive
Noninvasive

Integrated CPAP

Variable Oxygen

MRI Compatible

Alarms —

Patient Disconnect
Low Gas Supply
Remote Output

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 wherever they 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.

pNeuton has the unique combination of performance benefits

- All pneumatic operation, no batteries or external power needed to provide ventilation
- Switch from noninvasive face mask ventilation to invasive ventilation seamlessly and without interruption
- Low spontaneous work of breathing compared to other transport ventilators
- Built-in CPAP / PEEP system with automatic sensitivity for changing patient needs means no need for external CPAP valves
- Mandatory and spontaneous breaths at 100% or use 65% oxygen to prolong your oxygen tanks
- MRI compatible with remote alarm capability so you can meet patient needs in your special procedure areas
- Integrated all-pneumatic alarm system keeps you alerted to patient circuit disconnects and a low gas supply

pNeuton is designed for ventilating patients in pre-hospital and hospital areas

- Disaster Preparation
- Air / Ground Ambulance
- Emergency Department
- In-Hospital Transports
- Intensive Care Unit
- Post-Anesthesia Recovery Rooms
- MRI and other Radiology Suites
- Military Field Hospital and Evacuation



Specifications | pNeuton A

Description

- 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 3 T 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

<u>PARAMETER</u>	<u>RANGE</u>
Mandatory Breaths	On or Off
Respiratory Rate	3 to 50 bpm
Tidal Volume	360 to 1,500 ml
Peak Pressure	15 to 75 cm H ₂ O
PEEP / CPAP	0 to 20 cm H ₂ O
Oxygen	100% or 65%

Audible and Visual Alarms

All pneumatic alarm 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

Specifications are subject to change at any time without notice.

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