pNeuton model A transport ventilator with CPAP designed for critical care patient support

- Noninvasive or invasive ventilation
- Integrated, demand flow CPAP system
- Variable oxygen selection
- MRI compatible with remote alarm output
- Patient disconnect and low gas alarms

pNeuton is simple and versatile

pNeuton has 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 the emergency room to special procedures / MRI; for inter-facility transport and wherever your patient may be located.

pNeuton has these unique performance benefits

- All pneumatic operation, no batteries or external power needed to provide ventilation
- Change modes to meet patient needs - CPAP face mask to invasive ventilation seamlessly and without interruption
- Low spontaneous work of breathing comparable to other critical care ventilators
- Integrated all-pneumatic alarm system with remote alarm capability keeps you alerted to patient circuit disconnects and a low gas supply
- Mandatory and spontaneous breaths at 100% or use 65% oxygen to prolong your oxygen tank transports
Specifications | pNeuton A

**Description**

- 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 3 T static field strength, 6.9 G/cm spatial field gradient, 300 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**

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**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.

Distributed by:

For more information visit www.AironUSA.com

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MACS is the next generation CPAP system for EMS / Hospital Use

Continuous Positive Airway Pressure (CPAP) for use by mask or endotracheal tube. Indications include Congestive Heart Failure (CHF), Asthma, Acute Respiratory Failure (ARF), Trauma, COPD, Near Drowning or any patient with severe breathing difficulty.

MACS supports patients in respiratory distress who would otherwise require intubation. EMS agencies with Mask CPAP protocols have reported a substantial decrease in patient intubations with increased ER stabilization.

Benefits for everyone - MACS CPAP system

---- for the patient

- Demand flow system with minimal wasted oxygen
- Low patient Work of Breathing (WOB) with peak flow of up to 140 L/min to meet patient needs
- Calibrated CPAP control for stable pressure delivery
- Two oxygen levels to give only what is really needed

---- for the healthcare provider

- Manometer to monitor patient pressure and effort
- Night visible pressure gauge for patient monitoring
- Compatible with all end tidal CO2 monitoring systems
- Allows in-line medication nebulization

----- for the budget

- Two oxygen levels - conserve oxygen with 65% setting, double the tank time
- Standardized inexpensive patient circuits with or without expiratory filter will save on operating costs
- Streamline patient care with the same patient circuit and CPAP as the pNeuton S Ventilator
Specifications | MACS CPAP System

Description
- All pneumatic design and built tough; no batteries required
- CPAP control allows easy pressure adjustment to match patient requirements
- Demand flow system with automatic flow triggering; peak flow to 140 L/min
- Oxygen flow only as needed to match patient effort
- Pressure displayed on night viewable manometer
- Gas supply – 55 psi ± 15 psi oxygen
- Size – 3.5” W x 8” D x 6.75” H (9 cm x 20 cm x 17 cm)
- Weight – 3 lbs (1.35 kg)
- Classification according to MDD 93/42/EEC: IIa
- Meets international standards
  - ASTM F 920-85 Minimum Performance and Safety Requirements for Resuscitators Intended for use with Humans
  - ISO 10651-5:2006 Lung ventilators for medical use - Particular requirements for basic safety and essential performance - Part 5: Gas-powered emergency resuscitators
  - IEC 60529:2001 Degrees of protection provided by enclosures, level IPX4

Control Settings
- CPAP
  - 0 to 20 cm H₂O
- Oxygen
  - 65% or 100%

Accessories
- Patient circuit with large adult mask and head strap, box of 10 PN 58011
  (also available in alternate configurations with nebulizer and/or filter)
- MACS travel bag with shoulder strap PN 21021
- MACS protective boot with shoulder strap PN 21025
- Pole mounting bracket PN 21040
- High pressure oxygen hose, coiled, stretches up to 15 feet PN 21085

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Made in the USA
pNeuton has these unique performance benefits

- All pneumatic operation, no batteries or external power needed to provide ventilation
- Switch from CPAP face mask 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

pNeuton is simple and versatile

pNeuton has 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

Description

- 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)

Control Settings

- Mandatory Breaths ON or OFF
- Respiratory Rate 2 to 50 bpm
- Tidal Volume 360 to 1,500 ml
- Peak Pressure 10 to 75 cm H2O
- PEEP / CPAP 0 to 20 cm H2O
- Oxygen 100% or 65%

Audible Alarm

- Low Oxygen Inlet Pressure (below 30 psi)

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