

# CPAP for emergency care and transport

## 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  $\pm$  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
  - 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 H <sub>2</sub> O |
| ➤ Oxygen | 65% or 100%                 |

## Accessories

- |   |          |
|---|----------|
| ➤ Patient circuit with large adult mask and head strap, box of 10 (also available in alternate configurations with nebulizer and/or filter) | PN 58011 |
| ➤ 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 |

Specifications are subject to change at any time without notice.

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