

Critical Care CPAP for Hospital and Transport

MACS epic for non-invasive CPAP support

MACS epic addresses the unique requirements for Continuous Positive Airway Pressure (CPAP) within the hospital, including dynamic breathing patterns, flow demands and higher oxygen needs. The MACS epic enhances patient care and staff efficiency delivering:

- CPAP with patient monitoring for acute care health delivery areas
- Oxygen control allows 21 – 100% without attaching auxiliary oxygen to the mask



Hospital-grade CPAP to match patient acuity

Demand flow CPAP automatically adjusts flow to meet changes in patient's needs; maintaining airway patency and decreasing work of breathing.

Oxygen delivery options for acute care and transport – full range 21 to 100% $F_{I}O_2$ with blended air and oxygen system or at a flip of the switch intra-hospital transport with oxygen only (65%) for your convenience.

Condition alarms when you need them to ensure patient safety and monitor therapeutic objectives – patient circuit disconnection which automatically resets when alarm condition resolves and low gas source for monitoring oxygen/air gas supply.

MACS epic delivers reliable CPAP from emergency to non-critical care settings where CPAP is gaining popularity

- Emergency Care: Supports acute pulmonary exacerbation
Advances care for congestive heart failure
- Post-anesthesia: Airway support for sedation anesthesia
Shallow breathing oxygen/pressure support
- Intensive care: Weaning protocols for respiratory conditions
Reduces work of breathing post intubation
- Care Continuum: Early intervention for respiratory support
Nocturnal CPAP support for respiratory muscle mechanics



Specifications

MACS epic CPAP System

Description

- All pneumatic design; no batteries required
- Calibrated CPAP control allows easy pressure adjustment to match patient requirements
- Demand flow system with automatic flow triggering
 - Peak flow to 140 L/min
 - Eliminates wasted oxygen gas supply
- Pressure displayed on night viewable manometer
- Input Gas Supply – 55 psi ± 15 psi (3.8 bar ± 1 bar)
- Size – 7.5" H x 6.0" W x 8.7" D (19.1 cm x 15.2 cm x 22.1 cm)
- Weight – 6 pounds (2.7 kg)
- Classification according to MDD 93/42/EED: 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 cmH ₂ O (mbar) |
| ➤ Oxygen Options | 21 to 100% ± 5% (Oxygen & Air source gas),
± 10% with peak insp. flow > 50 L/min |
| ➤ Gas Input | 65% ± 5% for transport (Oxygen source gas only) |



Alarm System

- Patient Disconnect
 - CPAP pressure: less than 4 cm H₂O
 - Alarm delay: 22 seconds
 - Alarm silence: 60 seconds
 - Automatic reset when alarm condition resolves
- Low Gas Supply – Gas Input Oxygen + Air only
 - Input supply pressure differential: 18 to 22 psi (1.2 to 1.5 bar) or more
 - Cannot be silenced
- Remote Alarm Output

Specifications are subject to change at any time without notice.



Airon



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