



**MAGNAMED**

Innovation within your Reach

# OxyMag

*Emergency and Transport Ventilador*



CE 0120

## ***Neonate, Pediatric and Adult***

The OXYMAG is an emergency electronic transport ventilator for Neonate, Pediatric and Adult. This transport ventilator offers ventilatory support to patients in rescue operation, emergency and transport. Oxygen concentration can be adjusted in a range of 35 to 100% mixing compressed O<sub>2</sub> with ambient air. The OxyMag allows non-invasive ventilation (**NIV**) with a mask, avoiding patient intubation.

### **Main Characteristics:**

- Easy viewing - 5.7 inch color liquid crystal display with touch screen;
- Eight ventilation modes with PSV and PEEP;
- Complete ventilation monitor with graphics and numerical values;
- Complies with DIN EN 794-3 / IEC 60601-1-2:2006 / IEC 60601-1:1997;
- Intelligent alarm system with all safety requirements demanded by national and international standards;
- Power backup system for 6.5 hours operation without electrical power supply connection;
- Dimensions 255 x 181 x 231 mm - Weight 3.25 Kg

### **Optional Items**

- Wall mounting device;
- Trolley for emergency and recovery rooms ventilators;
- Backpack with support for rescue;

## Ventilation Modes

<b>VCV</b>	Volume Controlled Ventilation (+ Assisted) with flow shape setup
<b>PCV</b>	Pressure Controlled Ventilation (+ Assisted) with rise time setup
<b>PLV</b>	Pressure Limited Ventilation (+ Assisted) - <b>Neonate</b>
<b>V-SIMV</b>	Volume Cycle - Synchronized Intermittent Mandatory Ventilation (+ Pressure Support)
<b>P-SIMV</b>	Pressure Cycle - Synchronized Intermittent Mandatory Ventilation (+ Pressure Support)
<b>CPAP</b>	Continuous Positive Airway Pressure (+ Pressure Support)
<b>DualPAP</b>	Two Levels of Continuous Positive Airway Pressure (+ PS). APRV and BIPAP (adjustable)
<b>PSV</b>	Pressure support ventilation (with adjustable rise time and expiratory cycling)

## Adjustment Specifications

Parameter	Unity <sup>(1)</sup>	Range
Tidal Volume	mL	20 to 2000
Respiratory Frequency	min <sup>-1</sup>	0 to 150
Maximum Pressure	hPa	0 to 60
Pressure Support above PEEP	hPa	OFF, 5 to 60
PEEP / CPAP	hPa	0 to 40
Sensitivity (Pressure)	hPa	OFF, -0.2 to -10
Sensitivity (Flow)	L. min <sup>-1</sup>	OFF, 0.2 to 30
Inspiratory Flow (Adult)	L. min <sup>-1</sup>	5 to 130
Inspiratory Flow (Neonate/Infant)	L. min <sup>-1</sup>	2 to 30
I:E Ratio	---	1:4 to 4:1
Cycling by Flow	%	5 to 80
O <sub>2</sub> Concentration	% Vol	35 to 100
Inspiratory Time	s	0.1 to 10.0
Inspiratory Flow shape	L. min <sup>-1</sup>	Square, Decelerated, Accelerated, Sine
Rise Time	s	0.1 to 2

## Ventilation Monitor

Parameter	Unity <sup>(1)</sup>	Range
Pressure	hPa <sup>(1)</sup>	-20 to 100
Mean Pressure	hPa	0 to 100
Plateau Pressure	hPa	0 to 100
Inlet O <sub>2</sub> Pressure	PSI	0 to 150
PEEP	hPa	-20 to 100
O <sub>2</sub> Consumption	L. min <sup>-1</sup>	0 to 100
Tidal Volume / V <sub>TE</sub> Spontaneous	mL	0.2 to 2000
Minute Volume	L	0.1 to 30.0
Inspiratory Time	s	0.05 to 100.0
Expiratory Time	s	0.05 to 100.0
I:E Ratio	---	1:100.0 to 100.0:1
Respiratory Frequency	min <sup>-1</sup>	0.1 to 200
Airway Resistance	hPa/L/s	0 to 600
Compliance	mL.hPa <sup>-1</sup>	0 to 300
FiO <sub>2</sub> (Oxygen Concentration)	% O <sub>2</sub>	0 to 100
CO <sub>2</sub>	mmHg	0 to 80
SpO <sub>2</sub>	%	30 to 100

<sup>(1)</sup> 1 mbar (millibar) = 1 hPa (hectoPascal) = 1,016 cmH<sub>2</sub>O (centimeters of water). Practically these units cannot be differentiated and can be used as: **1 mbar = 1 hPa ≈ 1 cmH<sub>2</sub>O**

## Alarm System and Safety

Alarm	Unity	Adjustment
High and Low Pressure Alarm	hPa	OFF, 1 to 60
High and Low Minute Volume Alarm	L	OFF, 0.1 to 100.0
High and Low Frequency Alarm	min <sup>-1</sup>	OFF, 0.5 to 200
High and Low PEEP Alarm	hPa	OFF, 0 to 80
Apnea Delay Alarm	s	OFF, 5 to 60
High and Low CO <sub>2</sub> Alarm (Optional)	mmHg	OFF, 0 to 80
High and Low Cardiac Frequency Alarm (Optional)	min <sup>-1</sup>	1 to 254
High and Low SpO <sub>2</sub> Alarm (Optional)	%	30 to 100
Automatic Alarm (Ventilatory Values)	%	10, 20 and 30



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