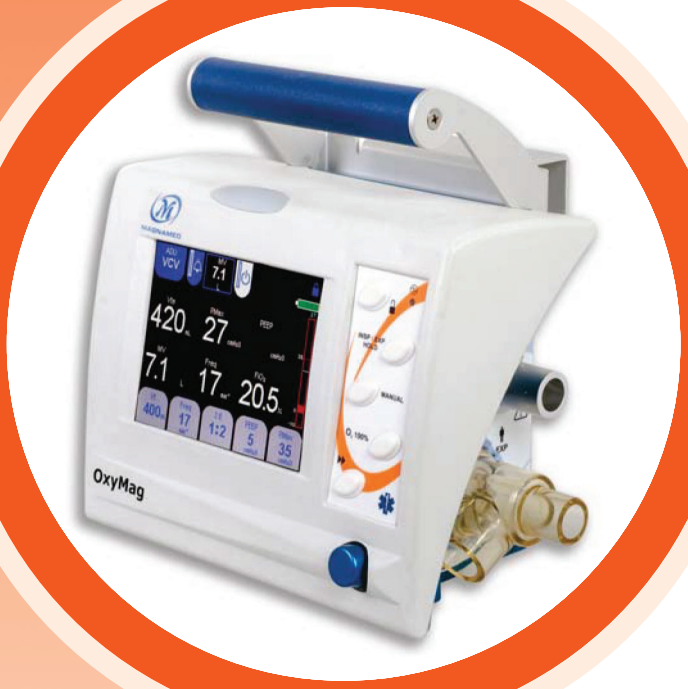
NiDEK MEDICAL INDIA

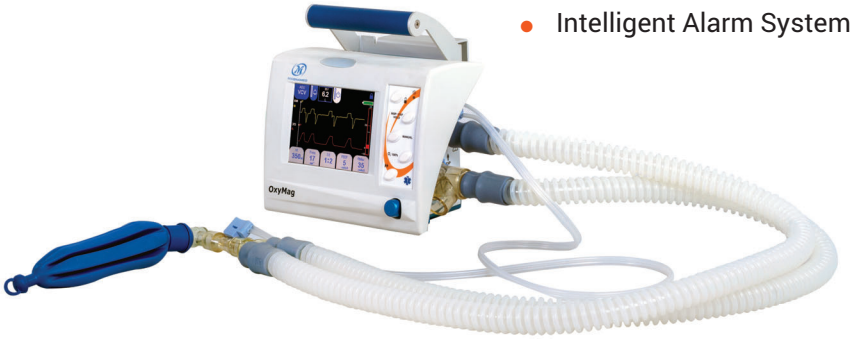
FAST RESPONSE VENTILATOR FOR EMERGENCIES

OXYMAG



Features

- Suitable for Neonatal, Pediatric and Adults.
- Application in Emergency, ICU as well as Transport.
- Works on Venturi Technology.
- Modes: VCV/VCV-AC, PCV/PCV-AC, PLV-AC, V-SIMV+PS, P-SIMV +PS, Dual PAP/APRV, CPAP/PSV: NIV
- Light Weight : 3 Kg
- Proximal Sensing for faster response.
- 6 Hours of battery back-up.
- Measurement of Capnography (EtCO2) or Oximetry(SpO2) with Masimo Sensor. (Optional).
- Ventilation with only single gas, Oxygen.
- No Bleed of Oxygen. Reduced Oxygen Wastage.
- 5.7 inch Touch Screen Display with a user friendly interface.
- Graphs and Loops for better monitoring.
- Can be connected to an external blender.
- Invasive & Non-Invasive Ventilation.
- Can be easily mounted in Air or Road Ambulance or Trolley.
- Low Cost of Operation and Ownership.
- Can also be used for low flow Oxygen Therapy.
- Intelligent Alarm System.



USER INTERFACE

Type and Size	TFT-LCD touchscreen 5.7"
Weight	3,0 kg (6.6 lbs)
Dimensions W x H x D	254 x 230 x 185mm (10 x 9.0 x 17.3 inch)
Communication/Interface	RS-232C ports

OPERATING CONDITIONS SPECIFICATIONS

Electrical power supply	100 to 240 V, 50/60 Hz
12 V_{DC} external	yes
Battery	6.5 hours
O_2 inlet	39 to 87 psi (270 to 600 kPa)
Standard connection available	DISS (optional NIST)
Temperature	-18 to 50°C (0 to 122°F)
Barometric pressure	600 to 1.100 cmH_2O (or hPa or mbar)
Relative humidity	15 to 95%

PARAMETER ADJUSTMENTS

Type of patient	Adult, Pediatric and Neonatal
Tidal volume	20 to 2500ml (Measured 2ml in Neonate with PLV)
Respiratory rate	0 to 150 bpm
Inspiratory flow	0 to 150 l/min
Rise time	0 to 2.0 s
Inspiratory time	0.1 to 10 s
Inspiratory pressure	1 to 60 cmH_2O (or hPa or mbar)
Peep	0 to 40 cmH_2O (or hPa or mbar)
Support pressure /Dpsupp	OFF, 5 to 60 cmH_2O (or hPa or mbar)
Flow cycling (% of peak flow)	5 to 80 %
Trigger sensitivity (Pressure trigger)	OFF; -0.2 to -10 cmH_2O (or hPa or mbar)
Trigger sensitivity (Flow trigger)	OFF; 0.5 to 30 L/min
I:E ratio	1:4 to 4:1
O_2 Concentration	OFF; 35-100% (21% to 100% with External Blender)
Type of inspiratory flow	Constant, decelerating, accelerating & sine

MONITORING

Curve	PxT, FxT and VxT/ SpO_2/ CO_2
Loops	VxF, PxV
Bargraph	Instant Pressure
FiO_2	Galvanic cell
Numerical value compliance, consumption,	Volume inhaled and exhaled, FiO_2, dynamic intrinsic PEEP, resistance, O_2 pressure, O_2 $EtCO_2$*, CO_2*, SpO_2**, heart rate**, perfusion index**

* Using Capnography. ** Using Oximetry.

VENTILATION MODES

VCV / VCV - AC; PCV / PCV - AC; PLV - AC; V-SIMV + PS; P-SIMV + PS; DualPAP / APRV; CPAP / PSV; NIV

ALARMS

Minute volume	high / low
Respiratory rate	high / low
Inspiratory pressure	high / low
Peep	high / low
Apnea time	OFF, 5 to 60 s
Automatic alarm settings	OFF, 10%, 20% and 30%

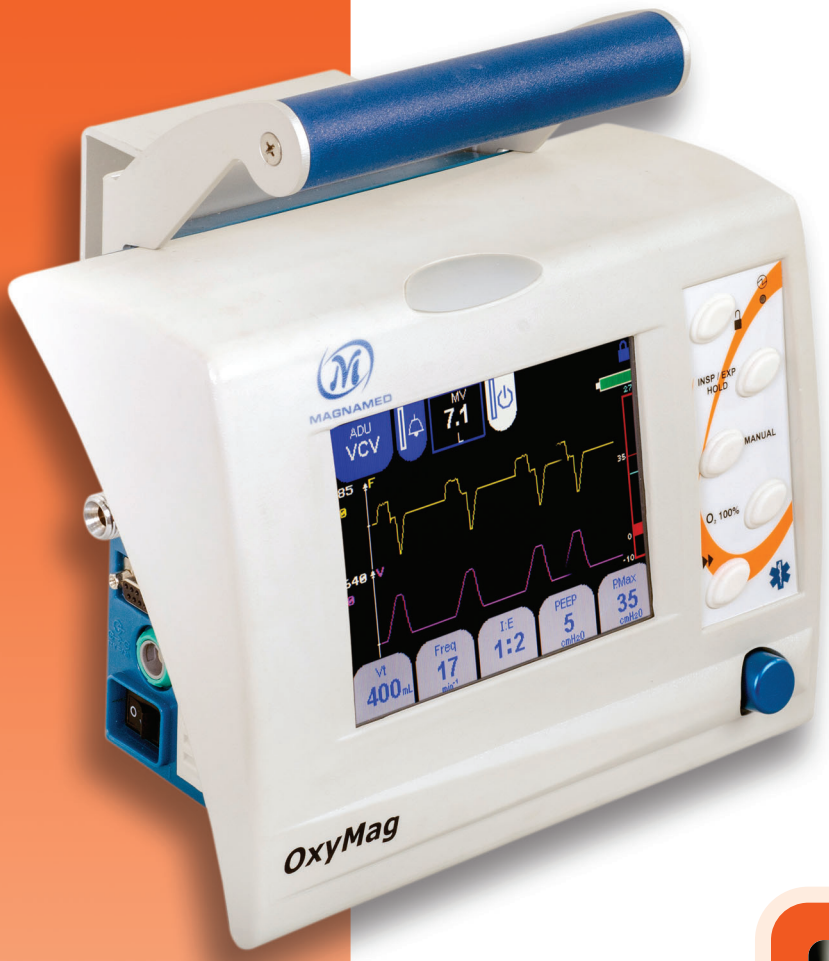
GENERAL SPECIFICATIONS

Stand by	on/off
Manual cycles	yes
Freeze	yes
Sigh	yes
Automatic barometric compensation	yes

OPTIONAL

Mobile base, wall support, transport system (bags), capnography and oximetry. DC / DC cable, Air and O_2 blender

Fastening and transport systems	Emergency vehicles; Intensive care unit vehicles; Helicopters; Gurneys and hospital beds.



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