



Portable Emergency Lung Ventilator

Serenity Portable Emergency Lung Ventilator



It is a pressure limited artificial ventilation device with digital manometer, volumetric time cycle and ventilation modes of wide programs

Portable Patient Transfer Ventilator has great importance in respiratory treatment, being small and lightweight.

Serenity can be used for treatment of adults and children.

Ventilation Modes: AUT+AST, PSV + Apnea Backup, CPAP, PEEP, NIV presented to the user.

It has a non-silence aural alarm feature when the battery and the gas pressure level reaches to critical level, in line with TS EN 794-3+A2 standard.



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Application	: Emergency / First Aid / Patient Transport - Venturi System
Patient Type	: Adult / Child / Baby (Not New Born)
Ventilation Type	: IPPV Volumetric - Pressure Support With IPPV Cycle Time
Control Method	: Electronic
Flow Generation	: Venturi System
Gas Feeding	: Oxygen or Pressured Medical Air: Gas Pressure Must Be Within The Range Of 280kPa - 600kPa (2.8bar - 6bar). Max. Ventilator Flow: 50L/min.
Measurement Parameter	: Airways Instant Pressure
Breathing Frequency	: 5bpm - 70bpm
I: E Rate	: 1:1.5
Inspiratory Time	: 40% of Breathing Cycle
Inspiratory Pause	: Automatic setting during PSV mode
Pressure Limit	: Adjustable from 0 to 50 cmH ₂ O
Pressure support ventilation	: Adjustable from 0 (SPONT.) to 50 cmH ₂ O
Tidal Volume	: From 15 to 3000 ml
Minute Volume	: From 1 to 16 L/min.
Flow trend	: Constant and decreasing (PSV)
Mixer device	: 50% O ₂ or 100% O ₂ (21% O ₂ with medical compressed Air supply)
Manometer	: Digital
Trigger (sensitivity)	: Adjustable from -1 to -5 cmH ₂ O
Alarm	: Battery Level / Low and High Airways Pressure / Apnea / Gas Supply / Power Failure
Alarm intensity	: 60dB
Medical Gas	: Oxygen or compressed medical Air
Electric power supply	: 12Vdc or 220Vac / 12Vdc with adaptor
Current consumption	: 0.02A - 220Vac / 0.4A - 12Vdc
Power	: 4.5W
Battery operation	: With built-in battery for 3 hours continuous operation
Charging Time	: Full-80mA current with 6 -hour recharge time when empty
Safety devices	: Mechanical limit of airways pressure adjustable from 0 to 50 cmH ₂ O
User's interface	<ul style="list-style-type: none">• Digital Manometer• Led Battery Level Indicator• External Power Failure Indicator• Led and Audible Alarms• Control Buttons
Dimensions	<ul style="list-style-type: none">• width : 28.5 cm• Length : 21.5 cm• Depth : 18.7 cm
Standard Accessories	<ul style="list-style-type: none">• Feeder 220 Vac - 12Vdc• Supply Cable 12Vdc• Disposable Adult and Child Mask• Disposable PVC patient device with expiratory valve• Bacteria Filter• User Manuel & Quick User Manuel
Weight	: 3.7 kg
Class According to EN 60601 Dir.	: Class II Type B
Standard Compliance	: EN 60601-1, EN 794-3+A2, EN 62304 EN ISO 15223-1, EN ISO 13485, EN ISO14971:2012, TS EN 1041:2008 TS EN 14155, EN 1789+A1
Environmental Conditions	<ul style="list-style-type: none">• Working Temperature -18°C to 60°C, Store Temperature -40°C to 70°C• 10% to 90% Relative Humidity (non-condensing)• Atmospheric Pressure 110kPa range from 70kPa• Ip44

