



I.C.U. VENTILATOR

I.C.U. LUNG VENTILATOR for ADULTS - PAEDIATRIC and NEWBORNS SIARETRON 3000.

use in:

Resuscitation / Intensive Care / Emergency with: Adults / Paediatric / Newborns

The construction materials are the most innovative and suitable for use in hospital environment, and they allow to have a light and ergonomic system and easy to clean. The electronic control guarantees technologically advanced lung ventilation and it is able to meet the needs of the different application fields for which the systems was designed.

The machine is suitable for administrating OXYGEN-AIR mixtures.



The machine is equipped with an automatic system which verifies, at each start-up, all important safety parameters for approx.5 minutes (AUTO-TEST). Specially, the flows, the pressures and all electronic hardware and software are verified, as well as the automatic CO₂ probe calibration with the consequent automatic identification of an eventual gas inversion. In order to use the machine in emergency case the above mentioned AUTO-TEST can be interrupted at anytime.

The built-in respiratory monitor (spirometer) detects, displays and controls the respiratory parameters like the expired flow, the airways pressure, the tidal volume per each respiratory act and the minute volume expired by the patient. Advise the operator by alarm in the case of patient apnoea and low or high minute volume. The graphic monitor displays the airway pressure and expired flow curves.

The flow transducer is positioned on the patient expiratory line and it is connected to the respiratory monitor by a suitable cable, the expired flow entity and the respiratory frequency.



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Technical specification:

Application	Resuscitation / Intensive Care / Emergency
Patients	ADULTS / PAEDIATRIC / NEWBORNS
Generality	The construction materials are the most innovative and suitable for use in hospital environment, and they allow to have a light and ergonomic system and easy to clean. The electronic control guarantees technologically advanced lung ventilation and it is able to meet the needs of the different application fields for which the systems was designed.
Destination of use	SIARETRON is a lung ventilator for resuscitation, intensive care, emergency and transport use It can be used on ADULTS, CHILDREN and NEWBORNS, varying the settable breathing parameters, in particular the MINUTE VOLUME/FLOW and the RATE, suiting them to patient physiology. The machine is suitable for administrating OXYGEN-AIR mixtures.
Ventilation type	IPPV
Control Modality	Electronic by microprocessor The machine is equipped with an automatic system which verifies, at each start-up, all important safety parameters for approx.5 minutes (AUTO-TEST). Specially, the flows, the pressures and all electronic hardware and software are verified, as well as the automatic O2 probe calibration with the consequent automatic identification of an eventual gas inversion. In order to use the machine in emergency case the above mentioned AUTO-TEST can be interrupted at anytime.
Flow generation	Proportional valves
Gas feeding	Compressed medical air and Oxygen at 3.5 bar \pm 0.75
Patient circuit type	Open – Double tube
Ventilation Modes	IPPV+AST / PSV (PRESS. SUPPORT)/ PCV / SPONT-SIMV / CPAP / APNEA BACK-UP /BIPAP(optional) /Drugs nebulization (optional)
Measured parameters	O2 Concentration / Max and Medium airways pressure/ For spirometry, mechanic breathing and other vital signs (see VISION 211 monitor data sheet)
Breathing frequency	From 5 to 70 bpm
I:E Ratios	1:1 - 1:1.5 - 1:2 - 1:3 - 1:4 - 2:1 - 3:1. Settable by inspiratory time
Inspiratory time	20 - 25 - 33 - 40 - 50 - 67 - 75% of the breathing cycle
SIMV Frequency	From 0 to 69
Tidal Volume	From 5 to 3000 ml
Minute Volume	From 1 to 30 liters with % INSP. at 33%
Expired minute Volume	Displayed on breathing monitor
PEEP	0-20 cm H ₂ O
BIPAP	Optional module with High and Low time adjustment from 1 to 60 sec. and relevant pressure regulation
Inspiratory flow	From 0 to 120 liters/min.
Mixer	From 21 to 99 % O ₂
Drugs nebulizer	Automatic connections with disposable nebulizer, on the back side of the ventilator (optional)

Options:

Trolley with tray, drawers, cylinders support mounted on wheels
Electronic humidifier