

fabian

neonatal and infant ventilator

ACUTRONIC
Medical Systems AG



technological innovations
for our youngest patients

www.acutronic-medical.ch

fabian

> neonatal and infant ventilator

fabian is equipped with a leakage compensated volume triggering system, which allows a safe and smooth ventilation of extremely low birth weight neonates and infants up to 30 kg. The work of breathing is reduced by a sophisticated flow control system and a unique type of exhalation valve. In addition, individual settings of inspiratory and expiratory flow allow a high flexibility in the choice of flow patterns. For adequate monitoring of respiration, a large and brilliant graphic display has been integrated into the front face of FABIAN which enhances security by optimal visual control.

fabian



Specifications

- > Nasal CPAP mode for stable CPAP pressure (optional)
- > Ventilation of premature newborns and infants from the lowest possible bodyweight up to 30 kg
- > Independent settings for inspiratory and expiratory flow
- > Leakage compensated triggering system

New modes on the **fabian+** ventilator include now:

- > NCPAP; with an automatic leak compensation system
- > DuoPAP; with a preset rate and inspiratory time
- > Non invasive nasal ventilation with either nasal prongs or masks of various sizes
- > For both of the new modes, the use of the InfantFlow™ circuit is necessary

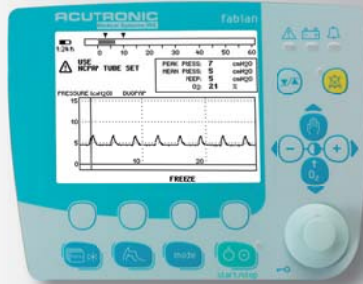
InfantFlow™ is a trademark of Viasys Healthcare company (now Cardinal Health Company).

fabian

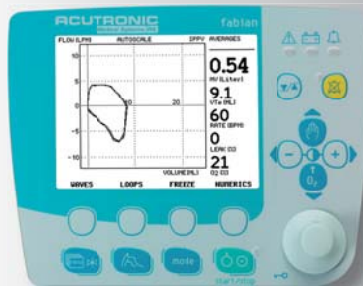
> neonatal and infant ventilator



fabian



- > NCPAP and DuoPAP mode for nasal ventilation. Accepts most brands of Nasal cannulas and masks of other manufacturers. Two level CPAP to improve CO₂ removal



- > Loops for pressure/volume, flow/volume and flow/pressure. Possibility to compare loops pre- and post application of surfactant



- > Realtime graphic waveforms for pressure, volume and flow. Freeze function to facilitate waveform analysis.



- > Simple operators interface for an intuitive setting of ventilation parameters. Independent settings for inspiratory and expiratory flow.



> technological innovations
for our **youngest patients**

fabian

> technical specifications



Controls

- > Control principle: continuous flow, volume limited, time cycled
- > Ventilation modes: IPPV / IMV, CPAP, SIPPV, SIMV, PSV, NCPAP, DuoPAP
- > CPAP ventilation: demand CPAP with backup frequency 1-5bpm
- > Triggered ventilation: volume trigger, leakage compensated trigger delay – approx. 30msec
- > Frequency: 2-200bpm
- > Volume limit: 5-100ml
- > Oxygen mixer loss: (bleed flow) 5ml/m

Dimension

- > Length x width x height: 19 x 35 x 34 cm
- > Weight: 9 kg - LCD: 5.7 "

Settings

- > Inspiratory oxygen concentration: 21 – 100 vol.% oxygen
- > Peak inspiratory pressure: 6 – 60cm H₂O
- > PEEP / CPAP: 0 – 20cm H₂O
- > Maximal frequency: 200 bpm
- > Inspiratory time: 0.1 – 2 sec / DuoPAP: 0.1 – 15 sec
- > Expiratory time: 0.2 – 30 sec / DuoPAP: 0.4 – 30 sec
- > Inspiratory flow: neonatal 1 – 20 l/mi, paediatric 4 – 30 l/min
- > Base flow (VIVE): 2 – 20 l/min

Monitoring

- > Graphic waves: pressure, flow, volume
- > Graphic loops: flow / pressure, volume / pressure, flow / volume
- > Flow and volume monitoring: proximal on y-piece adapted, deadspace 0.9 ml
- > Lung function monitoring: compliance, C₂₀ / C, resistance
- > FiO₂ monitoring: integrated
- > Pressure monitoring: PIP, PEEP, MEAN 0 – 60 cm H₂O

Connections

- > Voltage: 100 to 240 VAC 50/60 Hz and 10 to 28 VDC
- > Power consumption: 40 W
- > Battery working time: 2.5 hours

fabian

CE 0124



ACUTRONIC
Medical Systems AG

ACUTRONIC Medical Systems AG
Fabrik im Schiffli | CH-8816 Hirzel
Phone ++41 (0)44 729 70 80
Fax ++41 (0)44 729 70 81