

Clinical Experience  
+ Technical Competence

## Technical Specifications

General specification	
Patient range	Neonates and pediatric patients up to 25 kg bodyweight
Class according to 93/42 ECC	II b
Dimensions	470 x 342 x 332 mm (WxHxD)
Weight	26 / 42 kg (w/o /with trolley)
Function principle	Time cycled, pressure controlled
Operational specification	
Power supply	100 - 240 V AC, 50 - 60 Hz, 210 VA, 24V DC (opt.)
Battery backup	min. 60 min. (with internal, rechargeable Li-Ion-Battery)
Gas supply	
AIR	2.7 - 6.5 bar
O <sub>2</sub>	2.7 - 6.5 bar
Ventilation parameters	
Ventilation modes	PC-IMV, PC-Ass./Cont., PC-SIMV, PC-HFO (opt.), PC-IMV-HFO (opt.), PC-Ass./Con.-ITT, PC-SIMV-ITT, nCPAP, NIPPV, SNIPPV (opt.)
Modifications	Volume guarantee (VtLim/VtTar)
	Inspiratory Time Termination ITT (PSV)
Maneuver functions	Inspiration Hold / Manual Medication nebulization Preoxygenation
Ventilation settings	
Frequency	1 - 300/min
Inspiration time	0.1 - 2 s
Expiration time	0.1 - 60 s
Tidal volume	2 - 150 ml (VtTar/VtLim)
Pmax	5 - 60 cmH <sub>2</sub> O
PEEP	0 - 30 cmH <sub>2</sub> O
Pmin	PEEP-Pmax
Inspiration pattern	Rectangle, sinusoidal, linear
Trigger sensitivity	
Flow	0.2 - 2.9 l/min
Pressure	0.2 - 2.9 cmH <sub>2</sub> O
Abdominal movem.	0.2 - 2.9 Arbs
NIV MaxFlow	Off/20 - 6 l/min
Breathing gas temp.	33 - 39 °C
FiO <sub>2</sub>	21 - 99 %
Inspiratory Time Termination (ITT) PSV	
Exp.-Trigger KV%	5 - 40 % V' Peak
High Frequency Oscillation HFO	
Frequency	5 - 15 Hz
Inspiration	33 - 50%
MAP	0 - 30 cmH <sub>2</sub> O
Amplitude Vosc	max. 24 ml @ 10 Hz
Inspiration Hold / manual	
Max. Hold Time	T <sub>insp./1</sub> - 7 s

Ventilation settings	
Medication nebulization	
Aerosol time	30 - 420 s
Preoxygenation	
FiO <sub>2</sub>	FiO <sub>2</sub> - 100%
Preoxy time	0 - 420 s
Measured values	
Pressure measurement	
Insp. press.	-20 - 99 cmH <sub>2</sub> O (Pmax)
End-Expir. press.	-20 - 99 cmH <sub>2</sub> O (PEEP)
Mean airway press.	-20 - 99 cmH <sub>2</sub> O (Pmean)
Osc.-amplitude	0 - 120 cmH <sub>2</sub> O (Posc)
Volume measurement	
Insp. tidal volume	0 - 999 l (VT <sub>ins</sub> )
Exp. tidal volume	0 - 999 l (VT <sub>exp</sub> )
Leak volume	0 - 999 l (VT <sub>leak</sub> )
Exp. minute volume	0 - 999 l/min (MV)
Osc. minute volume	0 - 999 l/min (MV <sub>o</sub> )
Ventilation time parameters	
Breathing frequency	0 - 999/min (F)
Inspiration	0,1 - 100% (Insp%)
O <sub>2</sub> measurement	
FiO <sub>2</sub>	0 - 100%
Breathing gas temperature	
Proximal measur.	12 - 60 °C
Lung mechanics	
Resistance (R)	0 - 999 H <sub>2</sub> O/l/s
Compliance (C)	0 - 999 ml/cmH <sub>2</sub> O
Curve display	Paw(t), V'(t), V(t), P(V), P(V'), V(V'), Arbs(t)
Trend display	Pmean(t), MV(t), VT(t)
Trend duration	0,5, 1, 2, 4, 12, 24 (h)
Alarms/Monitoring	
Airway pressure	high/low (Pmax)
Exp. minute volume	high/low (MV)
Exp. tidal volume	low (VT)
Insp.O <sub>2</sub> -Concentr. FiO <sub>2</sub>	high/low
Breathing gas temp.	high/low
End-Exp. pressure	high (PEEP)
Mean airway pressure	high/low (Pmean)
Oscillatory amplitude	high/low (Posc)
Osc. tidal volume	high/low (V <sub>o</sub> )
Osc. minute volume	high/low (MV <sub>o</sub> )
Disconnection	
Water level humidifier bottle	
Apnea	
Interface	
RS232: VueLink/PDMS	
User interface	
Display screen	10,4" Color-TFT
Color-Schemes	Day view / Night view
Input devices	Buttons + Turn-Push-Button