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Clinical Experience
Technical Competence

General specifications	
Patient range	Neonates and pediatric patients up to 25 kg
Classification	II b (according to 93/42 ECC)
Dimensions	470 x 342 x 332 mm (WxHxD)
Weight	26 / 42 kg (without/with trolley)
Function principle	Time cycled, pressure controlled
Operational specifications	
Power supply	100-240 V AC, 50-60 Hz, 210 VA, 24 V DC (opt.)
Battery backup	min. 90 min. (with internal, rechargeable Li-Ion-Battery)
Gas supply	
AIR	2.7 - 6.5 bar
O_2	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, nCAP, NIPPV, SNIPPV (opt.)	
Modifications	Volume guarantee (VtLim/VtTar) Inspiratory Time Termination (ITT) PSV
Maneuver functions	Inspiration Hold / Manual, Pre-oxygenation, Medication nebulization
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 mbar
PEEP	0 - 30 mbar
Inspiration pattern	Rectangle, sinusoidal, linear
Trigger sensitivity	
Flow	0.2 - 2.9 l/min
Pressure	0.2 - 2.9 mbar
Abdominal movement	0.2 - 2.9 Arbs
NIV MaxFlow	Off/20 - 6 l/min
Breathing gas temp.	30 - 40° C
FiO_2	21 - 100%
Inspiratory Time Termination (ITT) PSV	
Exsp.-Trigger KV%	5 - 40% V' Peak
High frequency oscillation HFO	
Frequency	5 - 15 Hz
Inspiration	33 - 50%
MAP	0 - 30 mbar
Amplitude Posz	5 - 100%
Amplitude Vosz	max. 24 ml @ 10 Hz
Base FiO_2	21 - 100%
Backup FiO_2	Basis, 21 - 100%
SpO_2 UL	84 - 100%
SpO_2 LL	80 - 96%
Inspiration	Hold / Manual
Max. Hold time	Tinsp 1 - 7 s
Medication nebulization	
Aerosol time	30 - 420 s
Pre-oxygenation	
FiO_2	FiO2 - 100%
Preoxy time	0 - 420 s

Measured values	
Pressure measurement	
Insp. pressure	-20 - 99 mbar (Pmax)
End expiration pressure	-20 - 99 mbar (PEEP)
Mean airway pressure	-20 - 99 mbar (Pmean)
Osc. amplitude	0 - 120 mbar (Posz)
Volume measurement	
Insp. tidal volume	0 - 999 l (VTins)
Exp. tidal volume	0 - 999 l (VTexsp)
Leck volume	0 - 999 l (VTleck)
Exp. minute volume	0 - 999 l/min (MV)
Osc. minute volume	0 - 999 l/min (MVo)
Ventilation time parameters	
Breathing frequency (F)	0 - 999 l/min
Inspiration	0 - 100% (Insp%)
O_2 measurement	
FiO_2	0 - 100%
Breathing gas temperature	
Proximal measurement	12 - 60° C
Lung mechanics	
Resistance (R)	0 - 999 mbar/l/s
Compliance (C)	0 - 999 ml/mbar
SpO_2	0 - 100%
Base FiO_2	0 - 100%
Curve display	Paw(t), V'(t), V(t), P(V), P(V'), Arbs(t)
Trend display	Pmitt(t), MV(t), VT(t), FiO_2(t), BaseFiO_2(t), SpO_2(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	high/low (VT)
Insp. O_2Concentr. FiO_2	high/low
Breathing gas temperature	high/low
End exp. pressure	high (PEEP)
Mean airway pressure	high/low (Pmean)
Osc. amplitude	high/low (Posc)
Osc. tidal volume	high/low (Vosc)
Osc. minute volume	high/low (MVosc)
BasisFiO_2	high
FiO_2 limit	
Disconnection	
Water level humidifier bottle	
Apnea	
Interfaces / Monitors	
RS232: Vue Link, PDMS, IntelliBridge	
GE Healthcare	Patient monitor DASH 2000/3000/4000/5000
	Patient monitor SOLAR 8000i/8000M/9500
	Unity Network Interface Device in connection with pulse oxymeter option
Masimo	Radical 7 Signal Extraction pulse CO oximeter
Philips	IntelliVue X2, MP series, MX series
Dräger	Infinity series
Operating unit	
Screen	10,4" color TFT
Color scheme	Day view / Night view
Input devices	Buttons + Turn-Push-Button

Technical changes without notice. Fritz Stephan GmbH 10/2018