



Clinical Experience
Technical Competence

Sophie

Technical Specifications

General specifications	
MPG class	II b
Dimensions	395* x 330 x 350 mm (WxHxD) * plus patient part 75 mm
Weight	23 kg
Power supply	
Mains	90-264 V AC, 50-60 Hz, 150 VA
Battery	24 V DC, min. 30 min
Gas supply	
AIR	3-6 bar + 0.5 bar
O ₂	3-6 bar + 0.5 bar
Operating mode	
Pressure-controlled	linear, sinus, rectangle volume limitation
Ventilation modes	
CPAP	with/without backup HFO (optional)
SIMV	IT'T (PSV)
assist controlled	IT'T (PSV)
IMV	HFO (optional)
Parameters	
Operating unit	
Pmax	5 ... 60 mbar
PEEP	0 ... 30 mbar
Temperature	30 ... 40 °C
Inspiration time	0.1 ... 2 s
Expiration time	0.2 ... 60 s
FiO ₂	21 ... 100 %
Trigger Flow	0.1 ... 2.9 l/min
Pressure	0.1 ... 2.9 mbar
High-frequency oscillation (optional)	
Inspiration portion	33 ... 50 %
Frequency	5 ... 15 Hz (300 ... 900/min)
Amplitude	0 ... 100 %
Patient section	
Humidification bottle	350 ml
Preoxygenation	21 ... 100 % O ₂ (max. 7 min)
Insp. Hold	1 ... 7 s

Monitoring	
Display	10,4" color TFT
Pressure	Pmax, Pmean, Peep Posz (optional)
Volume	MV, VT _e , VT _i , Vleak Vo, MVo (optional)
Respiration frequency	
Inspiration portion	
FiO ₂	
Respiration gas temperature	
Resistance	
Compliance	
Graph Display	P(t), V(t), V'(t) V(P), V'(V), V'(P) Scaling Measurement function
Monitoring	
Alarms	visual, acoustic plain text message
Pressure	Pmax, Pmean, Peep Posz (optional)
Volume	MV, VT _e MVo (optional)
FiO ₂	
Respiration gas temperature	
Apnoesis	
Battery control	
Data output	
RS232	
Sensors	
Flow/Volume	Pneumotachograph Typ B to 10 l/min Typ C to 22 l/min
FiO ₂	El. chem. oxygen cell
Temperature	Temperature sensor proximal distal