



BIYOVENT

Intensive Care Type Mechanical Ventilator Device

MODES

Pressure-Controlled Modes	Volume-Controlled Modes
P-ACV	V-ACV
P-SIMV+PS	V-ACV(PRVC)
P-CMV	V-CMV
P-PSV	V-SIMV+PS
P-Bilevel	V-SIMV(PRVC)+PS

Spontaneous Modes	Smart Modes
SPN-PS	SAV
SPN-VS	

Patient Compliance and Performance Compliance

Adult		Pediatric	
Number of Breaths	1-100/minutes	Number of Breaths	1-150/minutes
T inspiration	0.1-10 seconds	T inspiration	0.1-10 seconds
Tidal Volume	0.1-3 Liters	Tidal Volume	0.02-0.6 Liters
Flow	1-120 lt/minute	Flow	1-60 lt/minute (Automatic)
I/E Rate	1:10/10:1	I/E Rate	1:10/10:1

Properties of Pressure Sources

O2 Pressure	2.5 - 7 Bar Host System/Tube
Air Pressure	2.5 - 7 Bar Host System/Tube
Auto change and alarm display in case of depletion of sources	
Medical Compressor / Ability to Operate by Regulator	

Electrical Properties

Battery Life	4 hours
Mains Voltage	85 - 264 VAC
Power Consumption	50- 60 Hz 70W

Digital Interfaces

USB: 6 pcs	COM: 1 pcs
HDMI: 1 pcs	LAN: 1 pcs
Display Port: 1 pcs	

MONITORIZATION PARAMETERS

Ppeak (cmH ₂ O)	Elastance (cmH ₂ O/Ltr)
Peep (cmH ₂ O)	Compliance (ml/cmH ₂ O)
Minute Volume (Lt/min)	RC Constant (sec)
Tidal Volume (ml)	Leak (%)
Number of Breathes (SS/min)	WOB (joule)
Pplato (cmH ₂ O)	WOB/Lt (joule/Lt)
Port (cmH ₂ O)	Vresidual (mL)
Rc Expiration (sec)	Vexpiration (mL)
I/E Rate	Vinspiration (mL)
Ti (sec)	AutoPEEP (cmH ₂ O)
Te(sec)	PO.1 (cmH ₂ O/ 0.1s)
Inspiration Peak Flow (Lt/min)	RSBI (ss/min)Lt
Expiration Peak Flow (Lt/min)	PTP (cmOXsec)
Oxygen (%)	P_nif (cmH ₂ Ov)
Minute Volume (Spn) (Lt/min)	Expiration Volume/min (Lt/min)
Number of Breathes (Spon) (RR/min)	Leak Constant (Ltr/min)/cmH ₂ O
R Airway (cmH ₂ O/ Ltr/sec)	Instantaneous Tidal Volume (mL)

Operational Features

Inspiration Pressure	2-100 mBar	Adjustable volume	
Inspiration Time	0.1-10 Sn	Inspiration-Expiration Hold	
Peep Pressure	1-50 mBar	Aspiration Support	
Flow	(p) 1-60 lt/min (a) 1-120 lt/min	Manual Ventilation	
		Nebulizer	15 lt/min
O2 Mixture	21-100%	I/E Ti selection	
Spontaneous Pressure Support	0-100 mBar	Leak-Trigger Compensation	
		Tube Compensation	
		I-Flow	
		Apnea Support	
		Alarm Auto Set	
		HFNO Therapy	120 lt/min
		Nasal Pressure	
		Invasive and Noninvasive ventilation	

Dimension and Weight

Dimension	150 cm
Depth	58 cm
Widht	58 cm
Weight	55 Kg
Screen Movements:	To the right or left 150°, up and down 15°
Screen:	Full Touch-Operated