

ENDO



ENDO Ventilator V2

ICU Ventilator

<https://endo.id>

Physical Specification

- Dimensions (L*W*H) : 310mm * 327mm* 493 (main unit)
664mm * 600mm * 1520mm (with trolley)
- Weigh : Approximately 12.0 (~main unit),
Approximately 33.0kg (with trolley)

Display

- Display Size : 18.5 inch-TFT Touch Screen
- Display Resolution (H) x (V) :1080 * 1920pixels
- Brightness : Adjustable

Ventilation Specifications

- Patient Type : Adult, Pediatric, Neonatal
- Invasive Ventilation Mode :
 - VCV (Volume Control Ventilation)
 - PCV (Pressure Control Ventilation)
 - VSIMV (Volume Synchronized Intermittent Mandatory Ventilation)
 - PSIMV (Pressure Synchronized Intermittent Mandatory Ventilation)
 - CPAP/PSV (Continuous Positive Airway Pressure/Pressure Support Ventilation)
 - PRVC (Pressure Regulated Volume Control)
 - V+SIMV (PRVC+SIMV)
 - BPAP (Bilevel Positive Airway Pressure)
 - APRV (Airway Pressure Release Ventilation)
 - Apnea Ventilation
- Non-invasive Ventilation Mode
 - CPAP (Continuous Positive Airway Pressure)
 - PCV (Pressure Control Ventilator)
 - PPS (Proportional Pressure Support)
 - S/T (Spontaneous and Timed)
 - VS (Volume Support)

Gas Supply

- Gas Supply : Medical-grade Oxygen
- Pipe Connector : NIST or DISS
- Gas Supply Pressure : 280-600kPa



Power & Battery Backup

- External AC Power Supply Input Voltage : 100-240V
- Input Frequency : 50/60Hz
- Input Current : 2.5A Max
- Fuse : T3.15AH/250V
- Number of Batteries : One or Two (Optional)
- Battery Type : Build-in Lithium-ion Battery, 14.4VDC, 6900mAh
- Battery Running Time : 3 hours (1 Qty Battery) 6 hours (2 Qty Battery)

Communication interface

- Communication Interface : HDMI, RS232, USB, Nurse call, CO Module Connector, SPO Module Connector

Value Added Funtions

- 100%O2
- Suction
- Nebulization
- Manual Breath
- Inspiratory Hold
- Expiratory Hold
- PEEPi
- P0.1
- NIF
- PV Tool



Controlled Parameters

Specifications	Adult, Pediatric	Neonatal
O ₂ %	21–100%	21–100%
VT (Tidal Volume)	100–2000mL (Adult) 20–300mL (Pediatric)	2–300mL
f	1–80bpm	1–150bpm
f–SIMV	1–80bpm	1–150bpm
I:E	1:10 –4:1	1:10 –4:1
T–insp.	0.2–10s	0.20–10s
T–slope	0–2s	0–2s
T–high	0.2–30s	0.2–3s
T–low	0.2–30s	0.2–30s
T–pause	5%–60% , Off	5%–60% , Off
ΔP–insp.	5–60cmH ₂ O	3–60cmH ₂ O
ΔP–supp.	0–60cmH ₂ O	0–60cmH ₂ O
P–high	0–60cmH ₂ O	0–60cmH ₂ O
P–low	0–45cmH ₂ O	0–25cmH ₂ O
PEEP	1–45cmH ₂ O , Off	1–25cmH ₂ O , Off
Flow Trigger	0.5–15L/min	0.1–5L/min
Pressure Trigger	–10 –(–0.5)cmH ₂ O	/
Exp%	10–85% , Auto	10–85% , Auto
CPAP	4–25cmH ₂ O	/
EPAP	4–25cmH ₂ O	/
IPAP	4–20cmH ₂ O	/
Rise time	1–5	/
Ramp time	5–45min , Off	/
P–min (VS minimum IPAP)	5–30cmH ₂ O	/
P–max (VS maximum IPAP)	6–40cmH ₂ O	/
P–max (PPV maximum pressure limit)	5–40cmH ₂ O	/
V–max (PPV maximum volume limit)	200–3500mL	/
E–max	0–100cmH ₂ O/L	/
R–max	0–50cmH ₂ O/L/s	/
PPV%	0–100%	/

Apnea Ventilation

Specifications	
VT–apnea	Adult: 100–2000mL Pediatric: 20–300mL Neonatal: 2–300mL
ΔP–apnea	5–60cmH ₂ O
f–apnea	1–80bpm
Apnea T–insp.	0.2–10s

Sigh

Specifications	
Sigh Switch	On, Off
Interval	20s–180min
Cycles Sigh	1–20
Δ int.PEEP	1– 45 cmH ₂ O , Off

Synchronized Tube Resistance Compliance

Specifications	
Tube Type	ET Tube, Trach Tube, Disable STRC
Tube I.D.	Adult: 5.0–12.0mm Pediatric: 2.5–8.0mm
Compensate	0–100%
Expiration Compensation Switch	On, Off

Monitored Parameters

Numeric		
Paw	Vte	C-dyn.
P-peak	VTi	C-stat.
P-plat.	VTe-spn.	RC-exp.
P-mean	VTe/IBW	WOB
PEEP	FiO ₂	RSBI
PIP	f	Pt.-trig.
EPAP	f-total	Pt.-leak
MV	I:E	Tot.-leak
MV-leak	Re	Continuous Flow (O ₂ Therapy)
MV-spn.	Ri	

Real Time Graphics	
Pressure-time Waveform	Pressure-volume Loop
Flow-time Waveform	Flow-time Loop
Volume-time Waveform	Pressure-flow Loop

Alarm Settings

Specifications	Type	Adult	Pediatric	Neonatal
Tidal Volume	High	110-4000mL, Off	25-600mL, Off	4-600mL, Off
	Low	50-4000ml, Off	10-600mL, Off	1-590mL, Off
Minute Volume	High	0.2-100.0L/min	0.2-60.0L/min	0.12-50.0L/min
	Low	0.1-50.0L/min	0.1-30.0L/min	0.02-30.0L/min
Airway Pressure	High	10-65cmH ₂ O	10-65cmH ₂ O	10-65cmH ₂ O
	Low	10-63cmH ₂ O, Off	10-63cmH ₂ O, Off	10-63cmH ₂ O, Off
Frequency	High	1- 90bpm , Off	1- 90bpm , Off	1~160bpm , Off
	Low	1- 88bpm , Off	1- 88bpm , Off	1~158bpm , Off
O ₂ Concentration	High	20-100%	20-100%	20-100%
	Low	18-98%	18-98%	18-98%
Apnea Alarm Time	Low	5-60s	5-60s	5-60s

O₂ Therapy

Specifications	O ₂ %	Flow
Controlled Parameters	21-100% (Increments of 1%)	4-60L/min
Controlled Accuracy	± (3vol.% +1% of Setting)	± (2L/min+10% of Setting) (BTPS)

Trend & Record

Specifications	
Type	Tabular, Graphic
Length	72 hours
Content	Monitor Parameters
Max Log	20000
Screen Capture	500


Environmental Specifications

Specifications	Operating	Storage and transport
Temperature	5-40°C	-20 - 60°C , O ₂ Sensor: -20 - 50°C
Relative Humidity	10-95%	10-95%
Barometric Pressure	62-106kPa	50-106kPa

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