



X-VENT Critical Care Ventilator Product Specification

- ❖ Easy to use (<30 min of training)
- ❖ Can use low-flow oxygen (O₂) source
- ❖ Remote tablet option
- ❖ No medical air required
- ❖ Uses universal disposables
- ❖ Low maintenance
- ❖ Affordable

FDA-EUA approved ventilator.

The X-VENT critical care ventilator combines the precision and independence of a piston-driven ventilation system to deliver a comprehensive set of ventilation modes and settings to meet patients' needs. The X-VENT provides invasive and non-invasive ventilation. The intuitive operating system makes configuration and operation very simple. The self-calibrating piston technology minimizes maintenance required making it the ideal stock pile ventilator for future pandemics.

The X-VENT Emergency Ventilator has received FDA EUA approval. This ventilator will be authorized only for the duration of the declaration that circumstances exist justifying the authorization of the emergency use of ventilators under section 564(b)(1) of the Action 21 U.S.C 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.



X-VENT

Specifications

Technical Specifications

Ventilation modes	
Volume-controlled ventilation modes	PC-CMV, VC-AC
Pressure-controlled ventilation modes	PC-CMV, PC-AC
Patient type	Adults >35 kg
Respiratory rate	8/min to 40/min
Inspiration time	0.3 to 2 sec.
Tidal volume	0.2 to 1.0 liter
Inspiratory pressure	5-40 mbar (or cmH ₂ O)
PEEP	5-25 mbar (or cmH ₂ O)
Air source	Room Air
O ₂ therapy	Low Flow O ₂ , 0-15 lpm
O ₂ concentration	21 to 100 Vol. (%)
Trigger sensitivity (pressure trigger)	1-10 mbar (or cmH ₂ O)

Display measured values	
Airway pressure measurements	PIP, Pplat, PEEP
Minute Volume (MV):	Total MV, 0-25 lpm
Tidal Volume (TV):	Inspiratory VTi, Expiratory Vte
Respiratory Rate (RR)	Total and Spontaneous Rate, 0-100/min
Ventilation Ratio (I:E)	2:1 to 1:10
Curve Displays	Paw(t), Tidal Volume (t)

Alarms	
Ventilator disconnected	Pressure <0.5 cmH ₂ O while ventilator is in operation
Airway pressure	Airway pressure low/high
High/High pressure	Pressure above 50 cmH ₂ O
Pressure limit reached during VC mode	Pressure above setpoint in VC mode
Tidal volume reached during PC mode	Tidal Volume above setpoint in PC mode
Spontaneous breath did not occur	Patient fails to trigger
Minute volume	Minute Volume low/high
O ₂ pressure	O ₂ pressure low/high
PEEP error	Setpoint does not match detected
Leak detected	Leak detection exceeds setpoints
I pressure sensor failure	Inspiratory pressure sensor failure detected
E pressure sensor failure	Expiratory pressure sensor failure detected
Pressure sensor disagreement	Pressure sensor readings differ
Airway pressure sensor failure	Airway pressure sensor failure detected
Mechanical Failure	Mechanical failure detected
PLC/HMI communication failure	PLC/HMI heartbeat lost
AC power disconnected	Loss of AC power detected
Battery low	Battery critically low

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Electrical specifications	
Input power	AC adapter 100 to 240 VAC 50/60 Hz.
Power consumption	5 amps max at 100VAC

Internal battery	
Electrical specification	24 VDC, 5Ah
Type	Lead-acid (Sealed)
Back up time	>1 hr (typ.)
Recharge time	15 hr.

Environmental specifications	
Operating temperature	5° to 40°c (40° to 104°F)
Storage temperature	-10° to 60°c (-15° to 140°F)
Operating humidity	10% to 95% relative
Storage humidity	10% to 95% relative

Physical applications	
Dimensions W x H x D	350 x 381 x 559 mm (14 x 15 x 22 inch)
Weight	22.7 kg (60lb)
Diagonal screen size	5.7" TFT touch screen