

eVolution® 3e ventilators

Features

- Comprehensive Graphics and Trending
- High Performance PSOL and Active Exhalation
- Servo Controlled for Precise Breath Delivery
- Neonatal through Adult
- Invasive and Noninvasive
- HL7 Compatibility and Virtual Report
- Capnography ready
- High Flow Oxygen
- 2ml Tidal Volume
- Weaning Target Tool
- Lung Model
- HEPA Filter (standard on Turbine Model)

High Pressure System Ventilator

Internal Turbine System Ventilator



eVent[®] 3e Essential

This document is intended to provide information to an international audience outside of the US.

Modes of Ventilation

- Assisted Control Mandatory Ventilation (CMV)
- Synchronized Intermittent Mandatory Ventilation (SIMV)
- Spontaneous Ventilation (CPAP + PS, CPAP + VS, SPAP/APRV)
- High Flow O₂

Additional Features

- Auto Control
- Apnea Backup Ventilation
- SPAP Philosophy Options: Time, Cycle + Time, Cycle + I:E
- IBW Calculator
- NIV On/Off in all Modes
- Active Exhalation Valve
- Automatic Leak Compensation (up to 60 lpm)
- Work of Breathing (Imposed and Total), Power, Stress Index
- Maneuvers: PO.1 and PiMax

Breath Types

- Volume-controlled (V-CMV; V-SIMV)
- Pressure-controlled (P-CMV; P-SIMV, PS/CPAP)
- Volume Targeted Pressure-controlled (PRVC-CMV; PRVC-SIMV, VS/ PRVC-PS)
- Dual Level PEEP (SPAP/APRV)

Breath Triggering

- Pressure triggering -0.1 to (- 20) cmH₂O
- Flow triggering 0.1 - 25 lpm

Additional Settings

- Respiratory rate 1 - 120 bpm
- Tidal volume 20 - 3000 ml
- PEEP / CPAP 0 - 50 cmH₂O
- Pcontrol 1 - 100 cmH₂O
- Psupport 0 - 100 cmH₂O
- Peak flow (mandatory) 1 - 150 lpm
- Peak flow (spontaneous) Up to 200 lpm
- Peak flow (Turbine Output) Up to 300 l/min
- I-Times 0.2 - 10.0 sec
- Oxygen concentration 21 - 100%
- Rise time settings 1 - 20
- Exhalation sensitivity % (of spontaneous peak flow) 1 - 80%
- Plateau (insp pause) 0 - 2.0 sec

Neonatal Software Option

Part Number: EVM400156

- NCPAP+
- Respiratory Rate 1 - 150 bpm
- Tidal volume 2 - 3000 ml
- I-Times 0.1 - 10 sec
- PS Tmax 0.15 - 5.0 sec

Additional Software Options

- Suction support Part Number: EVM400158
- Automatic tube compensation Part Number: EVM400157
- EtCO₂ Part Number: EVM400182
- Hi FlowO₂ Part Number: EVM400184

User Initiated Functions

- Manual inspiration
- Alarm silence
- 100% oxygen
- Inspiratory and expiratory breath holds
- Standby

User Configurable Graphic User Interface (GUI) and Functions

- Multiple Easy View Tabs (Main, Settings, Monitoring, Alarms, Configuration)
- Graphics Display (2-Loops and 3-Waveforms)
- Apnea Back-up
 - User-selected breath type and settings
- Smart Nebulizer™
- Smart Sigh™
- Humidification Selection (HME, Humidifier, and None)
- EtCO₂ Graphics Display
- PaCO₂ Time Stamp Entry

Monitored / Displayed Data

- Delivered oxygen concentrations: 21 - 100%
- Trend Data (1-72 hrs.) (45 trend parameters)
- Monitoring Data (57 monitored parameters):

Basic

- Respiratory Rate
- PEEP
- Ppeak
- Pmean
- Driving pressure
- Vte & Vti
- Ve & Vi
- O₂
- Te & Ti
- PFi
- PFe
- I:E or H:L

Mechanics

- Auto - PEEP
- WOB
- E
- SI
- POWER or C20/C
- Ptrach & Pmin
- Pplateau
- Cdyn
- Cstat & Cstat / kg
- Ri & Re
- Rce
- VT/kg

Weaning

- Ve Spont
- Vte Spont
- Leak
- PO.1 & PiMax
- RSBI
- Rate Spont
- Rate Man
- Ti / Ttot
- Spont % 1h
- Spont % 8h
- PO.1 / PiMax
- WOBimp

EtCO₂

- PetCO₂
- FetCO₂
- Valv
- VCO₂/min
- Vd ana
- Valv/min
- VtiCO₂
- Vd alv
- PeCO₂
- VteCO₂
- Vd/Vt phy
- FeCO₂

EtCO₂ Graphics

- PCO₂ Volume Loop
- FCO₂ Volume Loop
- PCO₂ + Time
- FCO₂ + Time
- VteCO₂ + Time

Real Time Graphics

- Flow Volume Loop
- Pressure Volume Loop
- Flow + Time
- Pressure + Time
- Volume + Time

Prioritized Alarms (High, Medium and Low)

Auto set alarm feature & 1000 Event log

Communication Interfaces

Ethernet and Nurse call

Physical Data

- AC power: 100 - 240 VAC (47/63Hz)
- Standard internal battery (Lithium-Ion* & Lead Acid**)
- Battery backup: 2 Hours (HP Model), 4 Hours (Turbine Model)
- Gas supply pressure, 2 to 6 Bar
- Screen: LCD 12.1" / Touch Screen

HL7 Protocol Compatibility and Optional Remote Viewing System

- CliniNet[®] HL7 Gateway™

High Performance Internal Technology

- Integrated high performance turbine technology with included HEPA filter*
- Low Flow O₂ Capability*

Ordering Information

- Model EVL100500-HP-NF, High Pressure System without Exhalation Filter
- Model EVL100500-T-NF, Internal Turbine System without Exhalation Filter

*Only available on turbine models. **Only available on high pressure models.

Specifications subject to change. eVent Medical recommends using exhalation filters on all systems.