

# eVolution<sup>®</sup> 3e Essential

## Features

- Comprehensive graphics and trending
- High performance PSOL and active exhalation
- Servo controlled for precise breath delivery
- Pediatric through adult
- Invasive and noninvasive
- Easy to use touch screen user interface



High Pressure System Ventilator

Internal Turbine System Ventilator

## eEvolution® 3e Essential

## Modes of Ventilation

- Assisted Control Mandatory Ventilation (CMV)
- Synchronized Intermittent Mandatory Ventilation (SIMV)
- Spontaneous Ventilation (CPAP + PS, CPAP + VS, SPAP)

## 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
- Maneuvers: PO.1 and PiMax

## Breath Types

- Volume-controlled (V-CMV; V-SIMV)
- Pressure-controlled (P-CMV; P-SIMV, PS)
- Volume Targeted Pressure-controlled (PRVC-CMV; PRVC-SIMV, VS)
- Dual Level PEEP (SPAP)
  - Equivalent to APRV & BiLevel

## Breath Triggering

- Pressure triggering -0.1 to (- 20) cmH<sub>2</sub>O
- Flow triggering 0.1 - 25 lpm

## Additional Settings

- Respiratory rate 1 - 120 bpm
- Tidal volume 20 - 3000 ml
- PEEP / CPAP 0 - 50 cmH<sub>2</sub>O
- Pcontrol 1 - 100 cmH<sub>2</sub>O
- Psupport 0 - 100 cmH<sub>2</sub>O
- Peak flow (mandatory) 1 - 120 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%
- Base Flow (with leak comp off) 2.5 - 25 lpm
- Plateau (insp pause) 0 - 2.0 sec
- PS Tmax 0.5 - 5.0 sec

## Neonatal Software Option Part Number: EVM400156

- NCPAP+
- Respiratory Rate 1 - 150 bpm
- Tidal volume 5 - 3000 ml
- I-Times 0.1 - 10 sec
- PS Tmax 0.15 - 5.0 sec

## Additional Software Option

- Suction support Part Number: EVM400158

## 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)

## Monitored / Displayed Data

- Delivered oxygen concentrations: 21 - 100%
- Trend Data (1-72 hrs.) (31 trend parameters)
- Monitoring Data (36 monitored parameters):

Basic	Mechanics	Weaning
- Respiratory Rate	- Auto - PEEP	- Ve Spont
- PEEP + Pplateau	- Pmin	- Vte Spont
- Ppeak & Pmean	- Cdyn	- PO.1 & PiMax
- Exp Min Vol (Ve)	- Cstat	- RSBI
- Vte & Vti	- Cstat / kg	- Rate Spont
- O <sub>2</sub>	- Ptrach	- Ti / Ttot
- Te & Ti	- Ri & Re	- Spont % 1h
- PFi & PFe	- Rce	- Spont % 8h
- I:E / H:L	- VT/kg	- PO.1 / PiMax
- Leak		- WOBimp

Real Time Graphics	Loops
- Flow + Time	- Flow + Time
- Flow & Pressure Volume	- 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 > 120 min
- Gas supply pressure, 2 to 6 Bar
- Screen: LCD 12.1" / Touch Screen

## Optional Remote Viewing System

- CliniNet® Virtual Report™ Software

## Optional High Performance Internal Gas Source Technology

- Integrated high performance turbine technology\*
- Low Flow O<sub>2</sub>, 0.3 to 2 Bar\*
- Paramagnetic O<sub>2</sub> Sensor

## Ordering Information

- Model EVL100500-HP, High Pressure System
- Model EVL100500-T, Internal Turbine System
- 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.