eVolution® 3e Essential

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





eVolution® 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 ₂ O
۰	Flow triggering	0.1 - 25 lpm

Additional Settings

	Respiratory rate	1 - 120 bpm
٠	Tidal volume	20 - 3000 ml
٠	PEEP / CPAP	0 - 50 cmH ₂ O
٠	Pcontrol	1 - 100 cmH ₂ O
۰	Psupport	0 - 100 cmH ₂ O
۰	Peak flow (mandatory)	1 - 150 lpm
۰	Peak flow (spontaneous)	Up to 200 lpm
۰	Peak flow (Turbine Output)	Up to 300 I/min
٠	I-Times	0.2 - 10.0 sec
۰	Oxygen concentration	21 - 100%
۰	Rise time settings	1 - 20
٠	Exhalation sensitivity %	1 - 80%
	(of spontaneous peak flow)	
٠	Base Flow (with leak comp off)	2.5 - 25 lpm
	Plateau (insp pause)	0 - 2.0 sec

Neonatal Software Ontion

Plateau (insp pause)

Part Number: EVM400156
1 - 150 bpm
2 - 3000 ml
0.1 - 10 sec
0.15 - 5.0 sec

Additional Software Options

- Suction support	Part Number: EVM400158
 Automatic tube compensation 	Part Number: EVM400157
- EtCO ₂	Part Number: EVM400182
- Hi FlowO2	Part Number: EVM400184

User Initiated Functions

 Manual inspiration 	 Inspiratory and expiratory
 Alarm silence 	breath holds
· 100% oxygen	 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)
- EtCO, Graphics Display
- PaCO, Time Stamp Entry

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	- P0.1 & PiMax
- Exp Min Vol (Ve)	- Cstat	- RSBI
- Vte & Vti	- Cstat / kg	- Rate Spont
- O ₂	- 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	EtCO ₂ Graphics	EtCO ₂
- Flow Volume Loop	- PCO ₂ Volume Loop	- PetCO ₂ - Vd / Vt
- Pressure Volume Loop	- FCO ₂ Volume Loop	- VCO ₂ / min - Valv
- Flow + Time	- PCO ₂ + Time	- VtiCO ₂ - Valv / min
- Presure + Time	- FCO ₂ + Time	- FetCO ₂ - PeCO ₂
- Volume + Time	- VteCO ₂ + Time	- Vd ana - FeCO ₂
		- Vd alv

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® Virtual Report™ Software
- CliniNet® HL7 Gateway™

High Performance Internal Technology

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

- 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.

Certificate US00/52067

The management system of

eVent Medical Ltd

60 Empire Drive, Lake Forest, CA, 92630, United States

has been assessed and certified as meeting the requirements of

ISO 13485:2016 EN ISO 13485:2016



For the following activities

Design, manufacture, servicing and distribution of INSPIRATION™ LS, 5i, and 7i ventilators and EVOLUTION™ 3e ventilators.

This certificate is valid from 10 February 2021 until 10 February 2024 and remains valid subject to satisfactory surveillance audits.

Re certification audit due before 10 February 2024 Issue 18. Certified since 05 October 2000

Authorised by

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EC Certificate Full Quality Assurance System: Certificate US19/819943514

The management system of

eVent Medical Ltd

60 Empire Drive, Lake Forest, CA, 92630, United States

has been assessed and certified as meeting the requirements of

Directive 93/42/EEC

on medical devices, Annex II (excluding Section 4)

For the following products

INSPIRATIONTM ventilators for continuous respiratory support in an acute and sub-acute institutional healthcare environment, EVOLUTIONTM ventilators for continuous ventilation for patients requiring respiratory support.

Where the above scope includes class III medical device(s), a valid EC Design Examination Certificate according to Annex II (Section 4) is a mandatory requirement for each device in addition to this certificate to place that device on the market.

This certificate is valid from 16 December 2019 until 10 February 2023 and remains valid subject to satisfactory surveillance audits.

Issue 1. Certified since 05 October 2000 and first certified by SGS Belgium NV since 16 December 2019

Certification is based on reports numbered WW/MW 201252

Authorised by

Pieter Weterings Certification Manager

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