

Advanced ventilation in the palm of your hand





VITAE® 40

Polyvalence that saves lives

From CPR on the field to the most complex transport



ERGONOMIC

All the control in the palm of your hand



COMPACT

227 x 125 x 65 mm



LIGHT

1.4 kg (with batteries)

VITAE® 40

Ventilation and monitoring at ICU level

Ventilation

VOLUME CONTROLLED	PRESSURE CONTROLLED
Controlled ventilation (VCV)	Controlled ventilation (PCV)
Assisted/Controlled (VC-A/C)	Assisted/Controlled (PC-A/C)
Synchronized Intermittent (VC-SIMV)	Synchronized Intermittent (PC-SIMV)
Synchronized Intermittent + Pressure Support (VC-SIMV-PS)	Synchronized Intermittent + Pressure Support (BIPAP)
Adaptive Pressure with Volume Guaranteed Ventilation (APVG) APVG + A/C APVG + SIMV APVG + SIMV + PS	Pressure Support Ventilation (PSV)
	Continuous Positive Airway Pressure (CPAP)
	Compensation for leakage Non-Invasive Ventilation (NIV)

Monitoring

FiO ₂ estimated	
Volumetric capnography (main stream, Masimo™)	
Real-time ventilation curves	
Loops and trends	





Assistants during CPR

Pressure-controlled ventilation with pre-configured settings and restrictions (CPR-PCV) during continuous cardiac massage

Assistants during CPR 30/2 or 15/2

CPR Semi-Auto:

Manual trigger of 2 breaths at the end of each massage cycle. Audible and visible metronome.

CPR Auto:

Automatic trigger of 2 breaths at the end of each massage cycle Audible and visible metronome.

CPR Auto-Compressor:

Automatic trigger 1 of breath at the end of each massage cycle in a thoracic compressor

According to regulations:







Conventional and high flow oxygen therapy (up to 80 L/min)



Connectivity (Bluetooth)



Standard: RTCA DO-160G / EUROCAE ED-14G





MONITORIZATION:

Ventilation curves:

Real time: Pressure/time, Flow/time, CO₂/time⁽¹⁾ Loops: Volume-Flow, Pressure-Volume, Flow-Pressure, VCO₂ (SBCO₂)⁽²⁾

Ventilation trends:

Pip, VMe, Cdyn, EtCO₂⁽¹⁾, V'CO₂⁽²⁾, V'alv⁽²⁾

Ventilation parameters:

Pip, VTe, F, Fspont, VMe, VTi, InCO₂, EtCO₂, Pplat, Pavg, Cdyn, O₂ Consumption, Leakage Index (VTi vs VTe), Timer

Volumetric capnography parameters(2):

ViCO₂, VeCO₂, VCO₂, V'CO₂, VDaw, VDalv, VDphys, VD/VT, PACO₂, FECO₂, PECO₂, VD/VT (Bohr), Valv, V'alv

FiO₂ (estimated)

Alarms: Specific interface with dedicated buttons on the touchpad Battery level

VENTILATION ADJUSTMENTS:

- Tidal volume: 5 to 3000 mL (50 to 1500 mL in VCV modes)
- · Ventilation frequency: 3 to 80/min
- I:E relation: 5:1 to 1:8PEEP: 0 to 30 mbar
- Inspiratory pressure: 5 to 60 mbar
- Maximum pressure: 5 to 60 mbar
- Pressure support: 5 to 60 mbar
- FiO₂: 40 to 100% O₂ (in 10% increments)
- Trigger: 1 to 15 L/min
- Inspiratory time: 0.1 to 16 s
- Inspiratory pause: 0 to 60%
- Ramp: 0.1 to 2.0 s
- · Non-invasive ventilation (NIV): No / Yes

Inspiratory flow: max. 120 L/min

Breathing circuit options: Reusable, Disposable, Adult and Paediatric

Power supply: 12 V_D

Optional: AC/DC (100 - 240 V / 50 - 60 Hz)

Consumption: max. (battery charge)= 2.5 A (typical= 1 A (@ 12 Vpc)

Gas supply: O₂: 2.7 - 6 bar (internal gas consumption < 0.1 L/min)

Battery autonomy: Up to 12 hours ($5 \text{ h internal bat.}^{(*)} + 7 \text{ h Pluscel bat}^{(3)}$)

Display: TFT colour 4,3'' ($95 \times 54 \text{ mm}$), with night vision options

Communications⁽³⁾: Bluetooth Enclosure protection: IP44

Dimensions and Weight: 227 x 125 x 65 mm; 1.4 Kg (including battery)

Fresh air inlet filter: 0.65 μ m (> 98% at 95 L/min)

Overpressure limiting device:

iii iii iig device.

Operating conditions: -20 to +50 °C, 0 – 95% humidity, up to 4600 m altitude

(built-in thermometer and altimeter for corrections)

Mechanical strength: 30g (normative vibrations and impact for helicopters,

105 hPa (105 cmH₂O)

airplanes and ambulances)

EMC protection: Radiated and conducted tests of helicopters, airplanes

and ambulances

Airworthiness: In accordance with IEC, ISO, EN and RTCA standards
Lithium-free battery(*): Internal NiMH battery, without reactive compounds,

compliance with new air transport regulations

Designed according to the new ISO standard 80 601-2-84:2018 for emergency and transport ventilator.

OPTIONS
(1) Capnography (Masimo™ main stream)
(2) Volumetric capnography

(3) Pluscel battery (Lithium) (4) Bluetooth

VITAE 40 ACCESSORIES/ CONSUMABLES/ SPARES

01 BASIC CONFIGURATION

VITAE®40	5200800
Standard ventilation modes: VCV, VCV-ACV, VC-SIMV, PCV, PCV-ACV, PC-SI (CPR assistants and CPV ventilation), Oxygen therapy (high flow), Patient circuit V Ambulance supply cable, Batteries pack 6 x NiMH rechargeable, Oxygen thera	ITAE®40 – disposable adult,
Power hose O ₂ (2m O ₂ DISS) (*)	410005X
O2_ OPTIONS Advanced ventilation modes (PSV + APVG)	4200804 4200962
03_ ACCESSORIES External battery (Li-ion) Test Lung (1L)	4200981 0142020



Cart for VITAE®40 + Cylinder up to 7L + AC/DC + Accessories Ref.: 4200860



Oxygen regulator with 1m hose (P-300 P40 – 1m – DISS) (*)

Transport case VITAE®40 Ref.: 3200990





Transport bag for cylinder 2/3 L (PAX) Ref.: 4200996



55014XX

Backpack transport Oxy Compact for VITAˮ40 Ref.: 4200990



Capnography (CO₂ analyser main-stream): IRMA CO₂, airway adapter for IRMA and CO₂ monitoring Ref.: 4200802



Wall support XG (30g) Ref.: 4320301



Steerable XG clamp (O°-45°-90°) VITAE®40 Ref.: 4200972



Double distributor DISS valve Ref.: 4200980



MR850 Humidifier/ heater + temperature sensor + heating cable + adapter to bar Ref.: 4500540



Oxygen regulator (P-300 P40 – With quick-release connection) (*) Ref.: 5501XXX

VITAE 40 ACCESSORIES/ CONSUMABLES/ SPARES

04_ CONSUMABLES



Patient circuit VITAE®40 Reusable adult Ref.: 4200897



Patient circuit VITAE®40 Reusable paediatric Ref.: 4200898



Patient circuit VITAE®40 single use adult Ref.: 4200892



Patient circuit VITAE®40 single use paediatric Ref.: 4200893



Pack 10 Bacterial-viral filters (HMEF) Disposable adult Ref.: 4100500



Pack 10 Airway adapter for IRMA CO₂ Adult/paediatric Ref.: 4100502



Oxygen therapy and capnography kit Ref.: 4200811



Pack 10 Optiflow circuit kit for MR850 with humidification chamber Ref.: 0500544



Pack 10 NIV face mask medium Ref.: 4200043



Pack 10 NIV face mask small Ref.: 4200041



Pack 10 NIV face mask large Ref.: 4200045



Pack 10 high flow nasal cannula small Ref.: 4200040



Pack 10 high flow nasal cannula large Ref.: 4200044



Pack 10 high flow nasal cannula medium Ref.: 4200042

05 SPARES

Rechargeable NiMH battery	3200851
Pack of 10 VITAE®40 air filters	4200817
Ambulance supply cable	3200885







AS EASY TO USE AS BREATHING







MANUFACTURERS SINCE 1973

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