



Introducing the bellavista™ 1000

A new generation of ventilation that supports you across care settings.

Technical specifications

Area of application	Intensive Care Unit (ICU) Intermediate Care (IMC) Emergency Room (ER) Intra-hospital transfer
Patient Types	Adult, Pediatric ≥ 6 kg
Technology	High performance turbine ventilator
ATC	Automatic Tube Compensation
Modes of Ventilation	Description
Adaptive Mode	
AVM	Adaptive Ventilation Mode
Pressure controlled	
P-A/C	Pressure Assist Control Ventilation
PC-SIMV	Pressure Controlled – Synchronized Intermittent Mandatory Ventilation
beLevel	Biphasic Ventilation
APRV	Airway Pressure Release Ventilation
CPAP	Continuous Positive Airway Pressure
PSV	Pressure Support Ventilation
Volume controlled	
V-A/C	Volume Assist Control Ventilation
VC-SIMV	Volume Controlled – Synchronized Intermittent Mandatory Ventilation
Advanced Features	
AVM	Adaptive ventilation mode for faster weaning and adaptation to the patient.
HFOT	High Flow Oxygen Therapy for adults and pediatric.
Lung Recruitment Tool	The bellavista Lung Recruitment Tool is an automatic maneuver that determines recruitability and subsequent recruitment of the lung in an in a reliable, reproducible and easy way. You can save and export up to 50 maneuver screenshots.

General Settings	Adult	Pediatric
P_{Insp}	5 – 60 cmH ₂ O	5 – 60 cmH ₂ O
$P_{Support}$	0 – 60 cmH ₂ O	0 – 60 cmH ₂ O
CPAP	4 – 30 cmH ₂ O	4 – 30 cmH ₂ O
PEEP	0 – 50 cmH ₂ O	0 – 50 cmH ₂ O
Pressure trigger	0.1 – 15 cmH ₂ O	0.1 – 15 cmH ₂ O
Flow trigger	0.1 – 20 L/min	0.1 – 20 L/min
Expiration trigger	5 – 90%, auto.sync	5 – 90%, auto.sync
Oxygen	21 – 100%	21 – 100%
Rate	5 – 50 breaths / min	5 – 100 breaths / min
Rate _{Backup}	5 – 50 breaths / min	5 – 100 breaths / min
Rise time	0 – 2000 ms, auto.rise	0 – 2000 ms, auto.rise
Plateau	0 – 70% of T _{Cycl}	0 – 70% of T _{Cycl}
$T_{Insp, I-time}$	0.1 – 10 s	0.1 – 10 s
$T_{Insp Max, I-time Max}$	0.3 – 3 s	0.3 – 3 s
T_{High}	0.1 – 59.8 s	0.1 – 59.8 s
T_{Low}	0.2 – 10 s	0.2 – 10 s
V_{tInsp}	250 – 2500 mL	40 – 500 mL

Monitoring Parameters	Description
P_{Peak}	Peak pressure during inspiration
P_{Mean}	Mean pressure during the entire respiratory cycle
$P_{Plateau}$	Plateau pressure (only available if plateau is >0)
P_{Insp}	Applied inspiratory pressure (relative above PEEP)
PEEP	Positive end-expiratory pressure
Rate	Respiratory rate
T_{Insp}	Inspiration time
T_{Exp}	Duration of expiration
V_{tInsp}	Inspiratory tidal volume
V_{tExp}	Expiratory tidal volume
$V_{tInsp/kg}, V_{tExp/kg}$	Tidal volume per kg body weight
MV_{Exp}	Expiratory minute volume
MV_{Insp}	Inspiratory minute volume
$MV_{Insp/kg}, MV_{Exp/kg}$	Minute volume per kg body weight

Technical specifications

Monitoring Parameters

Monitoring Parameters	Description
%Spont	Percentage of spontaneous breaths per minute
Flow _{Exp Peak}	Expiratory peak flow
Flow _{Insp Peak}	Peak inspiratory flow
I:E	Ratio of inspiration time to expiration time
Leak %	Leak in % of the volume delivered to the patient
Leak flow	Mean leak flow/min

Expert Monitoring

Rate _{Spont}	Respiratory rate of spontaneous breaths
% Spont _{1h}	Percentage of spontaneous breaths over the last hour
% Spont _{8h}	Percentage of spontaneous breaths over the last 8 hours
MV _{Insp Spont}	Inspiratory minute volume of spontaneous breaths
MV _{Exp Spont}	Expiratory minute volume of spontaneous press
RSBI	Rapid Shallow Breathing Index (Tobin Index)

Expert Ventilation

Auto _{PEEP}	Pressure above PEEP measured at the end of the HoldExp maneuver.
NIF	Negative Inspiration Force. Minimal pressure below PEEP during a HoldExp maneuver.
P _{0.1}	Occlusion pressure 100 ms after trigger.
AVM	
Rate _{Target}	Mandatory target rate of AVM
MV _{Target}	Target minute volume in AVM
T _{Insp Target}	Inspiratory time of mandatory AVM breaths

Lung Recruitment Tool

C _{Cursor Infl} , C _{Cursor Defl}	Compliance between the manually set cursor lines.
dV _{Max}	Maximum volume hysteresis in the lung recruitment and assessment maneuver
P _{dV Max}	Airway pressure at the maximum volume hysteresis in a lung recruitment and assessment maneuver
V _{Insp}	Maximum tidal volume during the lung recruitment and assessment maneuver
V _{PEEP}	Volume gain at the end of the lung recruitment and assessment maneuver
V _{Recruit}	Volume gain through recruitment during T _{Recruit}

Lung Mechanics

RC _{Exp}	Expiratory time constant
C ₂₀ /C _{Dyn}	A measure for potential overdistension of the lung
C _{Dyn}	Dynamic compliance
C _{Stat/kg} , C _{Dyn/kg}	Compliance per kg of set ideal body weight

Curves

Pressure airway
Flow
Volume

Loops

P_{aw}/Volume
Paw/Flow
Flow/Volume
Reference Loops
Loop overlay

Trending

Parameter Trending 1, 12, 24 H and 7 Day

Technical specifications

Maneuvers	Manual Breath Sigh Inspiratory Hold Expiratory Hold NIF (Negative Inspiratory Force) P _{0,1} (Occlusion Pressure) AutoPEEP Lung Recruitment Tool Nebulizer O ₂ Suction	Interfaces	RS232 USB Nurse Call
Alarms	VT _{Exp} (Higt / Low) MV _{Exp} (Higt / Low) P _{Peak} (Higt / Low) Rate (Higt / Low) FiO ₂ (Higt / Low) Apnea time Autoset	Screen	13.3" Color Full HD Touchscreen, TFT
Units		Touchscreen	Capacitive, glass touchscreen
Pressure monitoring	mbar, cmH ₂ O, hPa	Battery time	minimum 240 min. (internal)
Pressure input	bar, kPa, psi	Air inlet	Built-in turbine
CO ₂	%, mmHg, kPa	Acoustic power level	45.4 dBA (Single Limb), 50.8 dBA (Dual Limb)
Height	cm, ft, inch	Power input AC	100-240 VAC ± 20% / 50-60Hz
		Power input DC	24 VDC (20-29 VDC) / 3.5-6 A
		Power consumption	80-200 VA
		Classification	Class IIb, EU-Guideline 93 / 42 / EWG
		Certificates	CB Certificate (by CSA) mit fulfilment of following norms <ul style="list-style-type: none"> • IEC 60601-1:2005 / AMD1:2012 • IEC 60601-1-6:2010 / AMD1:2013 • IEC 60601-1-8:2006 / AMD1:2012 • ISO 80601-2-12:2011 • ISO 80601-2-55:2011 • ISO 80601-2-61:2011 • including National Deviations for CA, KR and US IEC 60601-1-2:2007 IEC 60601-1-2:2014 Including national deviations for EU, CA and US
		Declaration	bellavista is certified according to a certified quality management system according to EN ISO 13485 and quality assurance system according to EU Directive 93 / 42 / EEC Annex II, excluding section (4)

GLOBAL HEADQUARTERS

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