bellavista 1000 mr

Because continuity counts.

Highly sophisticated intensive care ventilation for your patients in an MRI environment.

The bellavista 1000 mr intensive care ventilator allows you unlimited freedom in your intra-hospital transfers. Even in an MRI environment you can now continue your lung-protective ventilation strategy for your patients without any limitations. To this end, bellavista 1000 mr provides you with state-of-the-art ventilation technology. During the time spent in the MRI scanner additional safety is provided by the magnetic field strength indicator of the MR-Guard module.

The bellavista 1000 mr can be used for universal applications ranging from neonatal to adult ventilation, regardless of whether you wish to ventilate invasively or non-invasively or whether you want to administer High Flow Oxygen Therapy. Our high-performance turbine drive, compact design and a battery time of at least four hours give you a wide scope of action for your in-hospital transfers. Our customisable software also allows you to decide how you are going to use bellavista, thus giving you practical and unique added value.

Features:

- High-end intensive care ventilator with capacitive 13.3" glass touchscreen

- MRI-safe up to 60mT under certain conditions

- MR-Guard with 360° field strength indicator and audible alarm

- Quick interlock with electronic check indicator

- High-performance turbine drive

MRI configuration

bellavista 1000 mr
Ventilator for safe work in an MRI environment up to 60 mT (<1 m at 3 tesla).

bellavista MR-Guard module
The quick attachment module with 360° MR-Guard magnetic field strength indicator and audible alarm shows you the optimal working range of the bellavista 1000 mr and alerts you as soon as the ventilator fails to keep the necessary distance from the MRI scanner.

bellavista Trolley mr
The trolley specially designed for the bellavista 1000 mr features an integrated brake function and an O_2 cylinder holder, thus making work in an MRI environment even easier, safer and user-friendlier.

Ventilation features

AVM
Adaptive Ventilation Mode (AVM) is a smart ventilation mode that considerably reduces the number of ventilation settings and thus relieves you, the user, of work. By constantly measuring lung mechanics, AVM adapts breath by breath to the patient's needs - irrespective of whether the patient is being ventilated or breathing spontaneously. AVM always calculates the optimal ventilation pattern at the lowest possible ventilation pressure and supports patients safely from intubation to extubation.

HFOT
High Flow Oxygen Therapy (HFOT) is a type of therapy that is able, in combination with an actively humidified tubing system, to effectively improve the oxygenation of patients while enhancing patient comfort. This is achieved by high flow rates that build up a positive pressure in the nasopharyngeal space. In contrast to conventional, non-invasive types of ventilation, patients are able to drink, eat and speak while undergoing HFOT.

LRT
The bellavista Lung Recruitment Tool (LRT) is an automated manoeuvre that provides you with all the necessary information for lung recruitment in a reliable, reproducible and simple way. In a first step, measurements are taken in order to find out whether a patient's lung is recruitable. If that is the case, collapsed alveoli or lung areas can be reopened in a second step.

AnimatedLung

AnimatedLung is a dynamic tool that visualises the mechanical state of your patient's lung. An easily comprehensible graphic display helps you to detect at a glance any changes in lung compliance or resistance, as well as the patient's spontaneous activity.

Customisable software

The bellavista 1000 mr offers you additional options depending on the field of application and complexity. Consequently, you can configure bellavista 1000 mr according to your specific wishes and requirements.

*« Sophisticated intensive care ventilation with maximum safety in an MRI environment. »*

Technical specifications

Parameter	Specification
Patient types	Adult, Pediatric, Neonatal*
Areas of application	Intensive care ventilation in an MRI environment, life-sustaining ventilation, intensive care unit (ICU), intensive monitoring care (IMC), emergency room (ER), intra-hospital transfer
MRI safety	Safe up to 60 mT under certain conditions (<1 m at 3 tesla)
Ventilation modes	
• Pressure-controlled	CPAP, P-A/C, PC-SIMV, PSV, beLevel, APRV, S, S/T, T
• Volume-controlled	V-A/C, VC-SIMV, PLV (Pressure Limited Ventilation), P-AC$_{target}$, PC-SIMV$_{target}$, PSV$_{target}$
• Adaptive mode	AVM
• Non-invasive modes	CPAP, PSV, P-A/C, PC-SIMV, beLevel, APRV, P-A/Ctarget, PC-SIMV$_{target}$, PSV$_{target}$, High Flow Oxygen Therapy (HFOT), NCPAP, NIPPV
• bellavista modes	DualVent*, DayNight*, MaskFit*
Peak inspiratory flow	0 - 260 L/min
Inspiratory pressure, IPAP	0..100 mbar
Psupport	0..80 mbar
PEEP, EPAP	0..50 mbar
Tidal volume	40..2500 mL Adult/Pediatric; 2..250 mL Neonatal*
Inspiratory time	0.1..10 sec
Respiratory rate	0..100 breaths per minute Adult/Pediatric; 0..150 breaths per minute Neonatal*
I:E ratio	1:299; 49:1 (biphasic) 1:59; 5:1 other modes
Inspiratory trigger	Flow 0.1..20 L/min, pressure 0.1..15 mbar, trigger off
Expiratory trigger	auto.sync, 5..90% manual
Rise time	auto.rise, 0..2000 ms manual
Leak compensation	auto.leak, automatic inspiratory/expiratory leak compensation
Graphs	Pressure, Flow, Volume, ATC
Loops	Pressure/Volume, Pressure/Flow, Flow/Volume
Monitoring	56 online parameters
Trending	14-day real-time trending, 1-year parameter trending
Breathing manoeuvres	Lung Recruitment Tool*, manual breathing, configurable sigh function, Hold Inspiration, Hold Expiration, NIF (Negative Inspiration Force), V$_{trapped}$, P0.1 (occlusion pressure), Auto-PEEP
Graphic displays	AVM Target Graph, VentSummary, AnimatedLung
Oxygen	21%..100%
Options	Neonatal Advanced, Capnography, SpO$_2$ Plethysmography, Lung Recruitment Tool, Paux, HFOT, DualVent, Day/Night, MaskFit, Expert Ventilation, Expert Monitoring
Nebuliser	Internal, pneumatic
Dimensions (w x h x d)	350 × 220 × 340 mm
Screen	13.3" Full HD capacitive glass touchscreen
Battery time	4h minimum
Oxygen supply	0..7 bar
Weight	17.7 kg
Power supply	100-240 VAC ± 20% / 50–60 Hz, low-voltage input 24 VDC / 3.5 A
bellavista MR-Guard	360° view magnetic field strength indicator, audible alarm, check indicator for quick interlock, battery operation
bellavista Trolley mr	Automatic brake function, integrated O$_2$ cylinder holder, integrated tube holder

*Optional
Not all options are available in all countries.
Please enquire at your local dealer or contact us at www.imtmedical.com
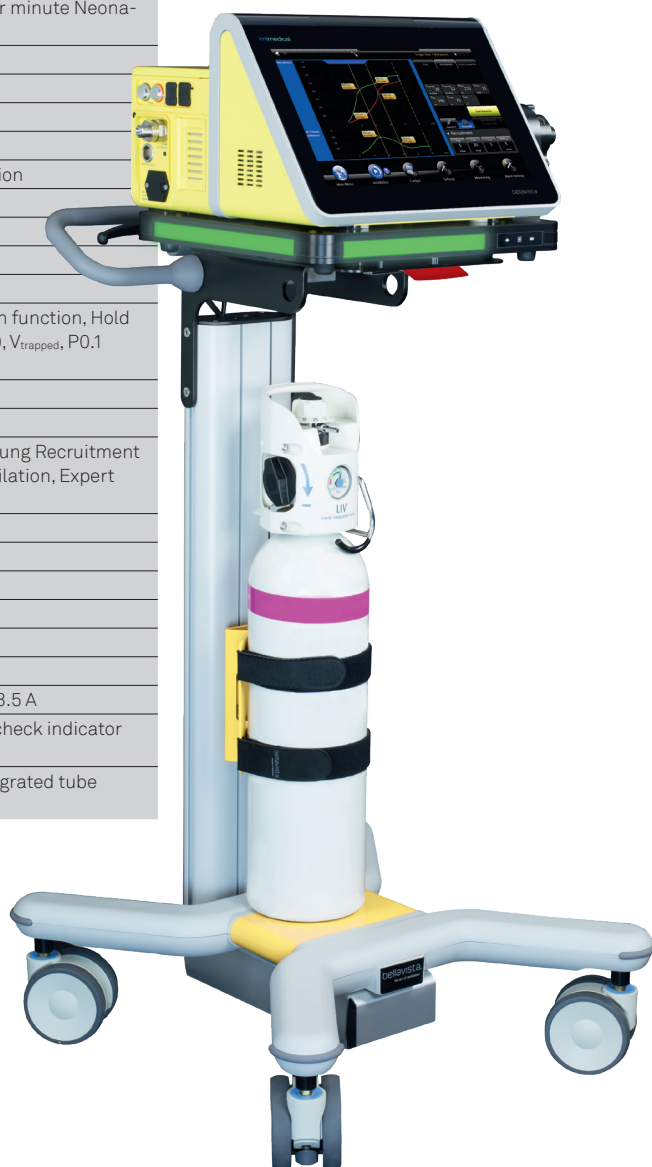
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