



# bellavista™ HFOT

High Flow Oxygen Therapy

BELLAVISTA™ 1000





# Better comfort for your patients

With the High Flow Oxygen Therapy (HFOT) option, you are able to extend the scope of therapy of our bellavista<sup>®</sup> ventilator. HFOT, in conjunction with an active humidified breathing circuit, is an extremely comfortable and effective way of improving the oxygenation of patients.

Our software allows clinicians to quickly access the HFOT mode from the start screen. This ensures the necessary separation of conventional ventilation modes in order to prevent possible complications.

With the simplicity of the HFOT, clinicians can carry on with existing heated dual limb circuits, or use specially configured single limb breathing circuits.



# Benefits of High Flow Oxygen Therapy



Start screen with HFOT option

## Enhanced patient comfort

According to studies, warmed and humidified respiratory gas improves the patient's comfort in respiratory support with high flow oxygen therapy compared to conventional noninvasive therapy.<sup>1,2</sup>

The mucociliary function of the respiratory system remains intact and a patient can drink, eat and talk during therapy, but this is only possible to a limited extent with a noninvasive breathing mask. Even expectoration of secretion is made easier with high flow oxygen therapy. The appearance of pressure marks is far less common with this type of therapy.

## Oxygenation

As a result of the high flow rates in high flow oxygen therapy, positive pressure is built up in the nasopharynx. Although that pressure is relatively low compared to that of conventional CPAP systems, it is sufficient to increase lung volume or reopen alveoli that have collapsed. By adapting external flow to the patient's inspiratory flow, the oxygen concentrations remain constant for the most part during therapy.<sup>3,4,5</sup>

## CO<sub>2</sub> wash-out

Continuous washing in the nasopharynx with fresh respiratory gas can reduce anatomical dead space. That makes it easier to exhale CO<sub>2</sub> depending on the set flow.

## Comfort functions with bellavista™ HFOT

bellavista HFOT offers patient's additional comfort with functions such as an adjustable ramp and the option of continuously nebulizing medicinal drugs during high flow oxygen therapy with the aid of our pneumatic nebulizer. The ramp function enables the clinician to help the patient comfortably adjust to the required flow. It also allows the humidifier to warm up the gas/air mixture more efficiently.

## Trending functions

All the parameters, such as flow and FiO<sub>2</sub>, can be displayed graphically for a period of up to 96 hours. bellavista HFOT's gesture control and its cursor function allow clinicians to easily and reliably set and change trend parameters.

## Mood buttons

In Neonatal mode, mood buttons display whimsical characters on the screen, providing some distraction to the patient by making the device screen friendlier in an otherwise intimidating high-tech environment.



# Technical specifications

	Adult	Paediatric	Neonatal
Flow rate	2..80 L/min	2..80 L/min	1..60 L/min
Ramp	1..20 min	1..20 min	1..20 min
Monitoring	Flow, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate*, patient group	Flow, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate*, patient group	Flow, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate, patient group, mood buttons
Trending	Flow, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate*	Flow, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate*	Flow, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate*
Nebulizer function	Yes	Yes	No
Alarms	Plimit, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate*	Plimit, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate*	Plimit, FiO <sub>2</sub> , SpO <sub>2</sub> *, pulse rate*



High Flow Nasal Cannula



High Flow Nasal Cannula



High Flow Tracheostomy Adapter

\* With Diagnostic package Pulse Oximetry

## Consumables

### High flow nasal cannulas

Adult/Pediatric

Item number	Name	Patients	Diameter	Flow rate
304.550.000	High Flow Nasal Cannula L	Adult	6 mm	Up to 50 L/min
304.551.000	High Flow Nasal Cannula M	Adult	5 mm	Up to 40 L/min
304.552.000	High Flow Nasal Cannula S	Paediatric/ Adult	4 mm	Up to 35 L/min

Tracheostomy Adapters

Item number	Name	Patients	Flow rate
304.553.000	High Flow Tracheostomy Adapter Size 2	Adult	15-50 L/min
304.554.000	High Flow Tracheostomy Adapter Size 1	Paediatric	5-15 L/min

Neonatal and Paediatric

Item number	Name	Patients	Diameter	Flow rate
304.556.000	High Flow Nasal Cannula Paediatric	Pediatric	3.5 mm	15 L/min max.
304.557.000	High Flow Nasal Cannula Neonatal	Neonatal	2.6 mm	10 L/min max.

*"High Flow Oxygen Therapy is an extremely comfortable and effective way of improving the oxygenation of your patients."<sup>3</sup>*



## REFERENCES

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5. Ritchie JE, Williams AB, Gerard C, Hockey H. Evaluation of a humidified nasal high-flow oxygen system, using oxygraphy, capnography and measurement of upper airway pressures. *Anaesth. Intensive Care* 2011;39(6):1103-1110. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/22165366>. Accessed August 14, 2015.

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