



# BB RESPIRATOR

BB Respirator is a portable pressure and volume ventilator.

It can be used with all conventional interfaces (mask, mouthpiece) and with the PBAir® interface, through the IAPV mode.

Equipped with a 7" touchscreen display, allows easily to set through a with wide range of ventilation modes for patients with diverse needs and rechargeable battery.

## APPLICATIONS

- **IAPV** (intermittent abdominal pressure ventilation)
- **IV** (invasive ventilation)
- **NIV** (non invasive ventilation)
- **MPV** (mouth piece ventilation)

## FIELD OF APPLICATION

- Hospitals
- Home Care
- Respiratory Therapy Clinics

## SUITABLE FOR

- Ideal for patients with acute/chronic respiratory failure
- Not designed to be used as an emergency ventilator
- Suitable for a wide range of patients' needs
- Provides continuous or intermittent ventilatory support for the care of subjects requiring mechanical ventilation
- Adult and pediatric up to 5kg

## OUTSTANDING FEATURES

- Wide therapeutic versatility: Invasive and non-invasive ventilation, with active valve circuits and leakage circuits
- Accurate volume and trigger sensitivity
- Wide range of settings and alarms for each specific requirement
- "Easy to use" interface
- Small sizes, light weight and 10 hours of battery autonomy
- PBAir® interface, through IAPV mode

# TECHNICAL FEATURES

General characteristics		Accuracy
Applications	IV, NIV, Mouthpiece ventilation (MPV), High flow oxygen therapy (HFOT), IAPV	
Ventilation modes	PSV, APCV, PCV, CV, ACV, SIMV, SIMVp, CPAP (only with leakage system), IAPV	
Usable Circuits	Single limb with leakage Single limb with active valve Single limb (15mm) for MPV Single limb with HFNC (high flow nasal cannula) for HFOT Single Limb with active valve and PB-Air in IAPV mode	
Multi-therapy	Up to 5	
Pressure support	1 – (60-EPAP) hPa (step 0.5 hPa) PS is the pressure above E <sub>ap</sub>	± 10% or 2hPa
Belt Pressure	4-70 hPa (step 0.5 hPa)	± 10% or 2hPa
Expiratory pressure	0 – 25 hPa (step 0.5 hPa) with active valve systems 3 – 25 hPa (step 0.5 hPa) with leakage systems	± 10% or 2hPa
Inspiratory volume	50 ml -2500 mL (10 ml-500 ml: step 10 ml; 500 ml-2500 ml: step 50 ml)	± 10% or 30ml
Frequency	1 – 60 BPM (step 1 BPM)	±1 bpm
Inspiratory controlled time	0.3 – 5.0 sec (step 0,1 sec)	± 5% or 0.2s
Minimum inspiratory assisted time	0.3 – 3.0 sec (step 0,1 sec)	± 5% or 0.2s
Maximum inspiratory assisted time	0.8 – 5.0 sec (step 0,1 sec)	± 5% or 0.2s
Target volume	OFF – 50ml to 2500ml	± 10% or 30ml
Flow (HFOT)	10-70 lpm (step 1 lpm)	
O <sub>2</sub> FLOW (HFOT)	0-30 lpm (step 1 lpm)	
Flow curves	Square, decelerated	
Inspiratory trigger	Autotrack + 9 different levels (1 = most sensitive, 9 = less sensitive)	
Expiratory trigger	Autotrack, from 10% to 90% from the peak inspiratory flow (10% = less sensitive, 90% = most sensitive)	
Alarms	Inspiratory pressure Expiratory pressure Respiratory rate Tidal volume Minute ventilation High leakage – Open circuit Low level battery No power supply	High-Low High-Low High-Low High-Low High-Low
Oxygen therapy	Low pressure – max 30 lpm @ 60hPa	
Particle and liquid protection	IP21	
Sound pressure alarms	90dBA	
Noise	Mode PCV, Interface LkFace, Closed circuit. Front Noise 31dB@10hPa; Mode PCV, Interface Dual, connected to a real Test Lung : Front Noise 47dBA@10hPa;	
Dimensions	27 x 26 x 13 cm (L x H x P)	
Weight	3.2 Kg	
Power supply	100/240V, -20%+10%, 50/60 Hz, 160VA Internal rechargeable in LiPo – 18 hours working autonomy in standard conditions (PS 15 hPa, Peep 5 hPa, Fr 15) Charging time: 8 hours from fully discharged to fully charged	
Conditions of Use	From 10 ° C to 40 ° C; Humidity: 10% to 90%, non-condensing Atmospheric pressure between 700hPa and 1060hPa	
Transportation conditions and storage	From -25 °C without humidity control, to + 70°C 93% relative humidity, non-condensing	
Safety standards	EN60601-1, EN60601-1-2, EN62366, EN62304 EN60601-1-11, EN60601-1-8, ISO10651-2 ; ISO 10651-6, ISO 80601-2-80	
Conformity	93/42/ECC and 2007/47/EC	
Electrical Insulation	Class II – BF	
Risk class	2B	

# PBAIR®

## IAPV ACCESSORIES

### (INTERMITTENT ABDOMINAL PRESSURE VENTILATION)

The PBAir® is the new and innovative interface that allows the Intermittent Abdominal Pressure Ventilation.

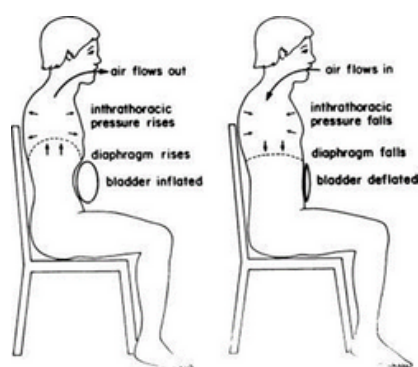
The use of PBAir® with a dedicated ventilator software (BB respirator) allows the lung ventilation (increasing gas-exchange) in patients with muscular weakness and diaphragmatic paralysis, conditions of all Neuromuscular patients:



The IAPV ventilation promotes an extra-thoracic Non Invasive Ventilation, without the aid of masks, avoiding the tracheotomy, reducing the facial decubitus risk due to the mask, improving the patient's quality of life.

Below, sizes available for PBAir®.

NOTE ASIDE: *It is possible to provide, on request, a size that is not present in the table below.*



Size		
Code	Length	Waist circumference
PBAir0090S	90 cm	70 cm
PBAir00100S	100 cm	80 cm
PBAir00115M	115 cm	95 cm
PBAir00120M	120 cm	100 cm
PBAir00128M	128 cm	108 cm
PBAir00134M	134 cm	114 cm
PBAir00144M	144 cm	124 cm
PBAir00150L	150 cm	130 cm