



# biorespira

## Designed for **everyday life**

### Pulmonary Ventilator



#### COMPACT & PORTABLE

- Handle
- Weight 3 Kg (6.6 lb)
- Size 291(W) x 259(H) x 203(D) mm

#### USER FRIENDLY INTERFACE

- 10" Display
- Touchscreen
- Direct reading of the PEEP, SpO<sub>2</sub> parameters and respiratory rate (RR)

#### USE IN HOSPITALS, FACILITIES AND AT HOME

- 24V - switching power adapter AC/DC (100-240V 50-60Hz)
- Built-in patient bed coupling
- Oxygen hook-up through a cylinder or directly from the wall

**IMPROVEMENT OF OXYGENATION AND DRAINAGE OF BRONCHIAL SECRETIONS**

**INCREASE OF CO<sub>2</sub> CLEARANCE WITH**

**REDUCTION OF FUNCTIONAL DEAD SPACE**

**GENERATION OF POSITIVE AIRWAY PRESSURE**

- Integrated regulation and mixing of oxygen, adjustable from 21% to 100%
- High Flow Oxygen Therapy: **Flow adjustable from 10 to 120 L/min (5 L/min increments)**
- Works with helmets, face masks and nasal cannulas. Use with helmets, non-vented masks, with PEEP valve and antiviral antibacterial filter creates an isolated system that prevents the risk of infection caused by the aerosol effect of the gases exhaled by the patient
- PEEP pressure sensor

CE 0476



# biorespira



## Intended Use

**Biorespira** is a high flux generator for non-invasive lung ventilation of patients in respiratory insufficiency, for use in sub-intensive care, post-surgery, first aid, assisted health care residences and home care. The device is intended for adult patients who breathe independently.

## Technology

**Biorespira's** technology is based on the use of a turbine capable of generating high flows starting from the ambient air, thus not requiring the compressed air supplied by the hospital system. This flow is mixed with medical oxygen, supplied via a oxygen cylinder or medical gas plant. Turbine operation optimizes oxygen consumption and allows the patient to deliver controlled flow and a precise concentration of oxygen, maintaining a constant positive pressure.

**Biorespira** allows direct measurement of PEEP pressure and is equipped with an integrated oximeter for a continuous reading of the actual air pressure delivered to the patient and oxygen saturation.

**Biorespira** allows a humidifier to be mounted on the inspiratory line.

**Biorespira** interface displays the continuous display of the patient's respiratory rate reading.

The use of **Biorespira** with helmets and non-vented mask with antibacterial/antiviral filter creates an isolated system that prevents the risk of infection caused by the aerosol effect of the gas exhaled by the patient.



### Homes

Biorespira **helps fight oxygen deficiency** while at home



### Hospitals

Biorespira **avoids ICU congestions.** Patients can heal in General Medicine Units





### Nursing Homes

Biorespira **helps treat the elderly** without transferring to hospitals







**Doctors around the world agree that assisted lung ventilation is the most effective therapy for:**

- Pneumonia patients
- Patients with acute hypoxemic respiratory failure
- Patients needing pre-oxygenation before intubation
- Chronic obstructive pulmonary disease patients
- Post intensive care patients.


## Environmental conditions


 <b>Operation</b>	✓ temperature	+18°C ÷ +40°C
	✓ relative humidity	10% - 95%
	✓ altitude	0-3000 m
 <b>Transport/Storage</b>	✓ temperature	-10°C ÷ +50°C
	✓ relative humidity	10% - 95%, without condensation

## General specifications

 <b>Dimensions</b>	291(W) x 259(H) x 203(D) mm with built-in patient bed coupling
 <b>Weight</b>	3 Kg (6.6 lb)
 <b>Screen</b>	Touchscreen - 10"
 <b>Power supply</b>	24V - switching power adapter AC/DC (100-240V 50-60Hz)
 <b>Degree of protection</b>	IP21
 <b>Therapy</b>	HFT and CPAP


## Accessories


 <b>Compatible disposables</b>	Helmet with PEEP valve
	Non-vented face mask with PEEP valve
	Nasal cannulas
	Vented face mask*
	*Require the use of a humidifier


 <b>Patient Circuit</b>	Mono-tube (adult)
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 <b>Filters</b>	Antibacterial/Antiviral Filter
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## Functional Characteristics

 <b>Function mode</b>	✓ Ventilation flux from 10 to 120 l/min
	✓ O <sub>2</sub> from 21% to 100%, compatible with oxygen cylinder or wall connections
	✓ Patient's PEEP pressure (cmH <sub>2</sub> O)
	✓ Oxygen Saturation SpO <sub>2</sub> %
	✓ Heart rate (bpm)
	✓ Respiratory rate (bpm)


 <b>Main characteristics</b>	✓ Graphic display with therapy and control information <ul style="list-style-type: none"><li>• Ventilation flux chart with flow rate graph</li><li>• PEEP pressure graph</li></ul>
	✓ Patient bed connection embedded
	✓ Multi-Language

 <b>Alarms</b>	audible and visual
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 <b>Pneumatic performance</b>	✓ O <sub>2</sub> <ul style="list-style-type: none"><li>• Quick coupling for compressed oxygen</li><li>• Inlet Oxygen Gas pressure range of use 0.6 - 7 bar</li></ul>
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	✓ Air supply <ul style="list-style-type: none"><li>• Integrated turbine with inlet air filter</li></ul>
	✓ Inhale output for patient <ul style="list-style-type: none"><li>• 22mm conical connector</li></ul>


## Standards and approvals

 <b>Classification</b>	Class IIa, hospital or domestic continuous function as per 93/42/CEE directive of the European Union Council
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 <b>Safety Classification (IEC 60601-1)</b>	Biorespira is Class IIa (Rule 11, Annex IX) with BF type applied part for continuous use
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 <b>Harmonized Standard</b>	EN 60601-1/A12   EN 60601-1-8   IEC 60601-1-11   EN 60601-1-6   IEC 62366-1   EN 62304/AC   ISO 10993-1
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 <b>Electromagnetic Compatibility</b>	Complies with the requirements of EN 60601-1-2
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 <b>Declaration</b>	The Biorespira ventilator has been developed to conform to the applicable international standards and the established guidelines. The ventilator is manufactured following the EN ISO 13485, EN ISO9001 standards and the 93/42/CEE directive of the European Union Council, Annex II, Article 3 related to the assurance of certified quality. The ventilator conforms to the essential requirements of the 93/42/CEE directive of the Council
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Legal Manufacturer



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