

Designed for everyday life







**Biorespira** is a **non-invasive pulmonary ventilator**d eveloped to provide an innovative and versatile approach to assisted lung ventilation, both in a clinical and daily context.

#### Biorespira provides the ultimate technology:

- High flow generator for non-invasive lung ventilation of adult patients with respiratory insufficiency, who breathe independently.
- Isolated system that prevents the risk of infection for other people in the room due to the aerosol effect of the gas exhaled by the patient.
- Easy-to-use and flexible clinical solution for a wide range of applications in sub-intensive care, post-surgery, first aid, assisted health care residences and home care.



## **Application Areas**





When there is **no need for intubation** 

In case of low oxygen in the blood



To **alleviate hospitals'** overload



For **easy and immediate** use

**KEY BENEFITS** 

- Non-invasive, portable solution
- Usable in hospitals, nursing homes and homes
- Improves patient's oxygenation
- Isolated system prevents virus spread
- Pre-hospitalization, to prevent the need for ICU treatment
- Post-ICU treatment or hospitalization, to reduce the need for new intubation
- User-friendly touch screen interface
- Cost-effective and innovative solution

## What

#### **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, SpO2 parameters and respiratory rate

### 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)
- PEEP pressure sensor
- 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.



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## Where



#### **Hospitals**

Biorespira **avoids ICU congestion**. Patients can recover in General Medicine Units



#### Nursing Homes

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



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Homes

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



## Who

Many types of **lung ventilators** already exist on the market, but demand is higher than supply, with long lead times, at extremely high prices and **mostly designed for intensive care and intubated patients**.

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
- Post-surgery





### **Why** KEY FEATURES

- High flux generator with a turbine capable of generating high flows starting from the ambient air, mixed with medical oxygen that can be supplied via an oxygen tank or medical gas plant
- Turbine operation optimizes oxygen consumption allowing the hospital's oxygen system to support more patients connected at the same time (one patient per Biorespira)
- Use 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
- Direct measurement of PEEP pressure and integrated oximeter for a continuous reading of the actual air pressure delivered to the patient and oxygen saturation
- Continuos display of the patient's respiratory rate
- Allows a **humidifier**, to be mounted on the inspiratory line



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### Accessories and Disposables supplied with Biorespira



**1x Power Supply** 



1x Power Cord\*



1x Pulse Oximeter

MASK KIT

1x Face Mask\*

1x "T" Junction

1x PEEP Valve

1x Inter-Guard<sup>™</sup> breathing filter with luer port

1x Multi-channel Oxygen Tube, non-PVC, 2.1m

1x 22mm Smoothbore Tube with soft end connectors, 22F-22F, length 1.8m



1x Oxygen Tube\*

#### **DISPOSABLE KIT to be chosen between:**

#### **HELMET KIT**

1x Hood for CPAP therapy\*

- 2x Inter-Guard<sup>™</sup> breathing filter with luer port
- 1x Multi-channel Oxygen Tube, non-PVC, 2.1m
- 1x 22mm Smoothbore Tube with soft end connectors, 22F-22F, length 1.8m
- 1x Junction
- 1x PEEP Valve
- \*Multiple versions available, to be selected when ordering





## **About SECO**





Worldwide presence







## **About IBD**

#### **Research and development of Medical Devices**



Conceived in London & founded in Italy in **2014** 



Certified EN ISO 13485 and EN ISO 9001



Over 1 million € from investors & announcements



Developed and certified an innovative device for hemodialysis





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## **THANK YOU**

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