

ResPro series Ventilator

Bi-level non-invasive ventilator with high flow function

Non-invasive mode	R 80B
Oxygen concentration setting	CPAP、S、S/T、T Off, 21%-100% settable
FiO2	21%~100% monitorable
IPAP(cmH2O) EPAP(cmH2O)	4~30 4~25
Delay time	0 ~ 60 min
Ramp Target tidal volume	1-6, 6 adjustable gears 100 ~ 2000 mL Off 0.3
Ti max Ti min	~3 s adjustable 0.1~3 s adjustable
Isens Esens	1-8, 8 adjustable gears 1-8, 8 adjustable gears
Respiratory rate	3~60 times/min adjustable
Tubing temperature	Off, 18~30 °C adjustable
Max. treatment pressure of noninvasive mode	30

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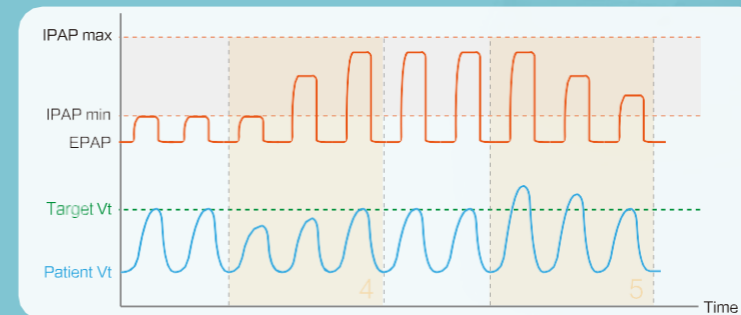
The BMC ResPro series non-invasive Bi-level ventilator has been designed highly integrated with twin turbine motor, with its high flow and non-invasive mode, can meet the more needs of clinical treatment.

- The high flow mode provides a maximum of 80L / min of air/oxygen mixtures, the oxygen concentration setting automatically, and exclusive patented AutoFlow function and SmartFlow function.
- In Bi-level non-invasive mode, the max. IPAP can reach 30cmH₂O and target oxygen concentration can be set. The specifically design of disinfection-free, the backflow prevention valve on humidifier chamber to prevent gas backflow, make the maintenance much more convenient.



Non-invasive mode

- 30 hPa high intensive therapy: provide pressure support of up to 30 hPa to meet the needs of high intensive therapy
- Controllable tubing temperature: can be set off, adjustable from 18 to 30°C
- Full-mode pressure titration: with all basic modes of non-invasive ventilator
- Respiratory rate: 3 ~ 60 times / min adjustable
- Respiration trigger sensitivity: up to 8 levels of breath trigger sensitivity, adjusted at any time as needed
- Target tidal volume function: Automatically controls the treatment intensity based on the patient's tidal volume changes, more intelligent



- Oxygen concentration: Non-invasive mode can set the target oxygen concentration of 21%~100%, eliminating the tedious operation of manual adjustment, and provides real-time monitoring of 21% ~ 100% oxygen concentration, real-time control of treatment parameters
- Rich tubing and oxygen absorption interface





High flow mode

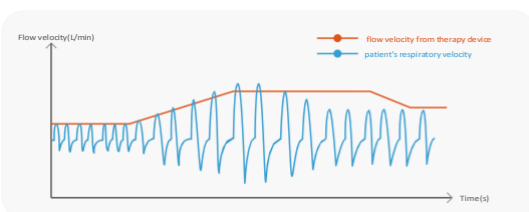
Can set FiO₂, temperature and flow

- Control target oxygen concentration automatically, oxygen delivery in the machine, 21% -100%, accurate to 1%; Wall oxygen source, oxygen cylinder, oxygen generator can support it; The built-in ultrasonic oxygen sensor requires no maintenance.
- 9-stage humidification temperature: 29 °C -37 °C, accurate to 1 °C.
- Advanced dual fan design, two levels of HFlow and LFlow, 2 L / min ~ 80 L / min, can meet patients of most ages.
- Innovative 7-level humidity compensation function, providing ± 3 adjustable humidity compensation, easily coping with various harsh temperature and humidity environments

Innovative High Flow model

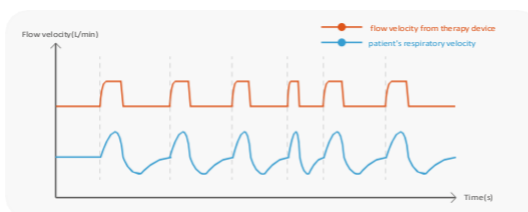
AutoFlow

Automatically set the output flow parameters based on the peak expiratory flow(PEF) of the patient, simplifying the setting steps, satisfying the treatment effect and improving patient comfort (With algorithm diagram)



SmartFlow

Follow the patient's every breath, switch the flow between breaths, provide a higher flow when inhaling, and a lower flow when exhaling, follow your every breath like a bi-level ventilator, comfortable and more economical oxygen resources. (With algorithm diagram)



Warm standby function designed for convenient use and saving oxygen

- ResPro has a Warm standby function, which allows you to continue warm oxygen therapy at any time without turning off the machine for a short time to leave, saving oxygen without having to wait for warm-up time.

More comprehensive monitoring indexes

- Real-time monitoring of Oxygen Concentration, Flow, Temperature, Respiratory Rate, sPEEP

Simple installation and easy setup

- Integration, disinfection-free design, saving clinical use and maintenance time.

ResPro series Bi-level ventilator provides non-invasive and high-flow dual mode, which can be used for patients with spontaneous breathing, including artificial airway respiratory insufficiency, also can be used for patients in hospitals and long-term care institutions.

- The Bi-level non-invasive mode has a target tidal volume and a maximum inspiratory pressure of up to 30 cmH₂O.
- High flow mode delivers a flow range 2 ~ 80 L / min, and the FiO₂ can also be set and adjusted automatically.

Optional accessories

<p>Water Chamber</p>	<p>Water Chamber Exchange Connector</p>	<p>Mask</p>	<p>Medical Trolley</p>
<p>LH2 Heated Tubing (use in high flow mode)</p>	<p>LH4 Heated Tubing (use in non-invasive mode)</p>	<p>Nasal Cannula for High Flow (XS/S/M/L)</p>	
<p>SpO₂ Kit</p>	<p>Disposable Pulse Oximeter Sensor</p>	<p>Finger Cuff Type Reusable Pulse Oximeter Sensor</p>	<p>Finger Clip Type Reusable Pulse Oximeter Sensor</p>

Recommended flow and range for high flow oxygen therapy

The following table lists the recommended starting flows and flow ranges for clinical studies on high flow oxygen therapy

	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
acute hypoxemic respiratory failure (pneumonia)									●							Macé et al. 2019
extubated patients at high risk of reintubation									●							Hernández et al Oct 2016
extubated patients at low risk of reintubation					●											Hernández et al Apr 2016
acute undifferentiated shortness of breath in the ED									●							Bell et al 2015
acute hypoxemic respiratory failure (pre-intubation)									●							Frat et al 2015
hypoxemic patients post cardiothoracic surgery									●							Stéphan et al 2015
post extubation with acute respiratory failure									●							Maggiore et al 2014
do not intubate patient with hypoxemic respiratory distress									●							Peters et al 2013
acute respiratory failure									●							Sztrymf et al 2011
mild-to-moderate hypoxemic respiratory failure									●							Parke et al 2011
post-cardiac surgery									●							Corley et al 2011
COPD									●							Storgaard et al 2018
COPD									●							Nagata et al. 2018
stable severe COPD patients															●	Cirio et al 2016
COPD and/or bronchiectasis															●	Rea et al 2010

Product parameters



R-80B

Adjustment method of Oxygen concentration	Auto
Flow Monitorable	adjustable Monitorable
Flow range	2L~80L/min
Oxygen concentration adjustment range	21%~100%
★Temperature output range	29°C~37°C
★Temperature adjustment gear	8 steps adjustable
Disinfection-free conception	Yes
Screen size	3.5 inches
Trend review function	1 day; 3 days; 7 days
Oxygen concentration	adjustable, Monitorable
Temperature	Monitorable, adjustable
★sPEEP	Monitorable
★Respiratory rate	Monitorable
SpO ₂	Option
Pulse rate	Option
Automatic reminder of filter replacement	Yes, settable
Automatic water filling function	Yes
★AutoFlow	/
★SmartFlow	/
★Humidity compensation	-3~+3, 7 steps adjustable
★sPEEP set	/
★Warm standby	Yes
★Twin turbine motor	Yes

