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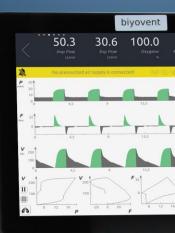


Intensive Care Type Mechanical Ventilator Device



BREATHE THE FUTURE

Intensive Care Type Mechanical Ventilator Device



Source I

1

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OUR BUSINESS: SOURCE OF THE LIFE

We produce technology for breathing, and breathing for health.

As Biosys, we offer solutions for the deficiencies in the medical sector with competent engineers and specialist doctors having many years of R&D experience since 2012. In our working process, we are progressing with the awareness that benefiting from health services is the most fundamental social right and that this right must be provided to every individual and we develop our technologies with this awareness.

We make our ideas a reality in our R&D center in order to meet both national and global needs in the field of health by developing new generation medical technologies. We know that even the smallest work and business we carry out can affect the health of an individual on earth, and for this, we carry out meticulous and deep studies to design every detail in our products perfectly. Thanks to our effective and safe production approach, we produce new generation medical technologies at high quality and reliability, and we hope for a healthy life.

In the technologies we have developed for the needs and demands of the health sector, we do not only advance and improve by relying on our engineering expertise, but also we carry out a multidisciplinary study shaped by the opinions of doctors in every step we take. Thus, we make a difference in the health sector with medical devices that have high technological threshold values and fully meet the needs, and have the best design, software and technology. With this difference, we continue to progress confidently to affect the health of every individual and to be the gateway to a healthy life in the world.

DETAILED RESEARCH, EXCELLENT RESULT

1500+ pcs. Brazil Ready-to-use delivery in less than 30 days.

We make a Difference in Intensive Care Systems with New Generation Technology.

conducted to meet the needs of the health sector, ventilator device with Biyovent which we have we realized that there are deficits especially in developed with the supports of Republic of Turkey intensive care systems and that these deficits Science, Industry and Technology Ministry, Scientific directly affect both healthcare professionals and and Technological Research Council of Turkey patients. In line with this awareness, as a result (TUBITAK) and Bilkent University Cyberpark, we of 5 years of R & D activity that we have carried out with the opinions of specialist doctors, we addition to achieving great success in a short time have developed the Biyovent Intensive Care Type with this new generation technology, we contribute Mechanical Ventilator Device.

As Biosys, as a result of the researches we In the production of intensive care type mechanical make a difference in the world health sector. In to the health of many individuals in the world.



With our thousands of devices that are actively used all over the world, we affect the lives of many people and become hope for your loved ones.



Countries

We continue to help all healthcare professionals and patients in difficult times of the world, such as the Covid 19 process.



20**Delivery** in less than 20 Days

We know that time is valuable for health, when dispatching/ sending devices abroad, we deliver them ready to use in less than 20 days.

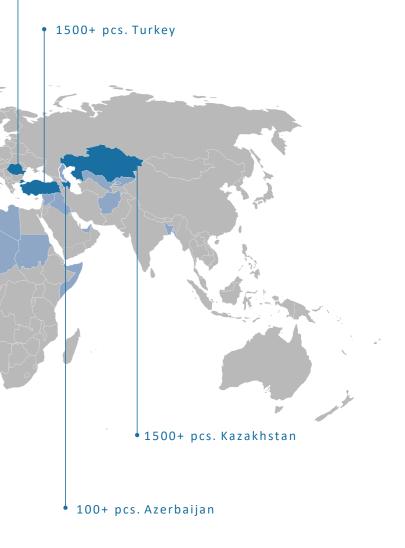


We take firm steps forward in our goal of being the gateway to health.

BIYOVENT



• 200+ pcs. Romania





THE NEXT STEP IN VENTILATOR TECHNOLOGY

Biyovent, which was developed with the aim of offering products with high technological threshold value, fully meets the needs with its new generation technology. It offers high quality in terms of both technology and health, thanks to its features that cover all the deficits that the ventilator devices used up to this time cannot offer and the doctors cannot meet the demands.

cover all the deficits that the ventilator devices used up to this time cannot offer and the doctors cannot meet the demands. With every detail designated from design to hardware, from software to technology and developed with a holistic approach, Biyovent adds value to health with its modern and ergonomic design, user-friendly interface, traditional and innovative operating modes, and adaptable structure to different patient groups. In



<u>www.biosys.com.tr</u>

DESCRIPTION OF PERSONALIZED TREATMENT

Effective Treatment For the Needs of Every Patient

The medical state and needs of every patient are different. Biyovent which is developed with this awareness, offers a customizable structure based on patient needs. Thus, it provides advantages to both the patient and the doctor for the most effective treatment.

With Biyovent, in which every detail is considered for health, characteristics such as height and weight of the patients are entered during use in pediatric and adult patients, and the most appropriate treatment method is provided to the patient.

In addition, the changing clinical needs can be followed up by recording the values related to the patient's condition besides

physical characteristics. Thus, it is ensured that the most appropriate and correct treatment can be performed to each patient.

In terms of usage, Biyovent helps healthcare professionals to reach information they need and provides the opportunity to choose Non-Invasive, Invasive Ventilation and N-CPap, HFO therapy methods in performing the treatment method that the patient needs. With its advanced software features, Biyovent, which establishes a safe infrastructure for treatment, maximizes safety with the ability to select the length and thickness of the air canal circuit to be used for the patient from the air canal settings and adjustable alarm limits.



Invasive and Non-Invasive Ventilation



Integrated Nebulizer



High Flow Oxygen Therapy and N-CPAP (nasal C-PAP)

Suitable for Neonatal (Optional) Pediatric and Adult Patients



Smart Ventilation Modes





INNOVATIVE DESIGN, COMPREHENSIVE SOLUTIONS

- Multiple-use autoclavable Expiratory block
- Nebulizer outflow

Design Suitable for Quick and Easy Installation

triple structure. Thanks to its ergonomic design helps to operate quickly in a solution-oriented consisting of foot, support and main body parts manner thanks to its simplified installation connected to the screen, it provides ease of system rather than a complex configuration installation. Biyovent, which allows parts to be during device installation.

Biyovent is installed quickly and easily with its connected with each other with eight screws,



• Power supply for humidifier

• Emergency valve

External Nebulizer Input (USB)

- 15 inch high definition color • screen
- Sensitive touch •
- Easy to switch between modes •
- Easily adjustable mode • parameters
- Simultaneous monitoring of more than 30 parameters.











- Wheels with increased shock absorption
- Lock mechanism
- Safe design •
- Easy to use



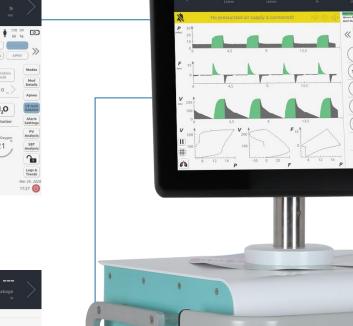
ADVANCED SOFTWARE, EASY TOUSE

User-Driven Display System

With its advanced software features and user-driven interface design, Biyovent simultaneously displays 3 graphics, 3 cycles and lung dynamic status. Thanks to the visual aided interface design used in accessing information, it provides convenience in learning and practice, allowing access to more than 30 parameters on the same screen. With its high definition of 15 inches, it shows the information on the system clearly and in detail. Adjustments are made easily on the screen,

With its easy-to-use interface design, patient details can be entered easily and the device provides the opportunity to customize parameters according to thepatient.





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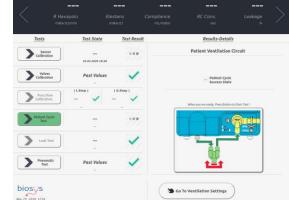
biyovent

0.0

0.0

50.3 30.6 100.0

Allows easy calibration in 3 steps with directions on the screen.





12.21



It allows to monitor/ see the dynamic state of lung with lung diagram, which provides intelligent ventilation monitoring.

14.0 Resp. Rate RR/min		236.0	3.3 te Valum	
14.0		236.0	3.3	
2.9		1.4	0/2.0	
0.0		0.0	0.0	
th R(Spon) 88/min		Minute/Vol(Spor		
5.2		0.32	5.0	
			mpliance mL/mBar	
0.0	176	218	132	on 02
0.4	0.0	0.6	3.2	8
	Pózafagus	Leak Cost		

Monitoring parameters can be accessed on a single screen, allowing more than 30 parameters to be monitored simultaneously. **Biyovent Intensive Care Type Mechanical Ventilator Device**

APPROPRIATE **TREATMENT FOR EVERY PATIENT**

biyovent





Ventilation Modes for All Ages and Conditions

Pressure Controlled Modes (P-ACV) P-SIMV+PS P-CMV P-PSV P-Bi-level APRV)

► Volume Controlled Modes (V-ACV V-ACV(PRVC) V-CMV V-SIMV+PS,

Spontaneous Modes (SPN-PS SPN-VS)

Smart Modes [SAV(WOB Optimisation)]

Intensive Care Type Mechanical Ventilator Device

TECHNICAL SPECIFICATIONS

Pressure-Targeted Modes

P-ACV

P-SIMV+PS

P-CMV

P-PSV

P-Bilevel

APRV

Volume-Targeted Modes

V-ACV

V-ACV(PRVC)

V-CMV

V-SIMV+PS

V-SIMV(PRVC)+P

Spontaneous Modes

SPN-PS

SPN-VS

Optional Features

Use in neonatal patients

SAV (WOB Optimisation)

Monitoring	Parameters
Ppeak (cmH2O)	Compliance (mL/cmH2O)
Peep (cmH2O)	RC Constant (sec.)
Minute Volume (Lt/mins.)	Leakage (%)
Tidal Volume (ml)	WOB (joule)
Breath Number (Number/mins.)	WOB/Lt (joule/Lt)
Pplato (cmH2O)	Vresidual (mL)
Port (cmH2O)	Vexpiratory (mL)
I:E Rate	Vinspiration (mL)
Ti (sec.)	AutoPEEP (cmH2O)
Te (sec.)	P0.1 (cmH2O/ 0.1s)
Inspiration Peak Flow (Lt/mins.)	RSBI (ss/min)Lt
Expiratory Peak Flow (Lt/mins.)	PTP (cmH2OXsec)
Oxygen (%)	P_nif (cmH2O)
Minute Volume (Spn) (Lt/mins.)	Expiratory Volume/mins. (Lt/mins.)
Breath Number (Spon) (Number/min.)	Leakage Constant (Ltr/m)/cmH2O)
R Airway (cmH2O/ Ltr/sec)	Instant Tidal Volume (mL)
Elestance (cmH2O/Ltr) Elestance (cmH2O/Ltr)	rcExp (sec.)

Patient Suitability and Performance Suitability Child, Paediatric Breath Number: 1-150/mins. T inspiration: 0.1-10sec. Tidal Volume: 0.02-0.3 Litre Flow: 1-60 Litre/Mins. Adult Breath Number: 1-100/mins. T inspiration: 0.1-10sec. Tidal Volume: 0.1-3 Litre Flow: 2-120 Litre/Mins. **Operation Features** Inspiration Pressure: 2-100 mBar Inspiration Duration: 0.1-10 Sec. Peep Pressure: 0-50 mBar Breathe Speed: (ç) 1-150/mins. (y) 1-100/mins. Flow: (ç) 1-60 lt/mins. (y) 2-120 lt/mins.

O2 Mixture: 21-100%

Spontaneous Pressure Support: 0-100 mBar

I/E Rate: 1:10 (x60*)-10:1 (ç): Child, (y): Adult

Pressure Welding Features

O2 Pressure: 2.5 - 7 Bar Central System/Tube

Air Pressure: 2.5 - 7 Bar CentralSystem/Tube

Automatic change and alarm display at the end of welding

Operating with Medical compressor / Regulator

Electrical Features

Battery Duration: 2 hours + 8 hours (Optional)

Mains Voltage: 180 - 264 VAC

Power Consumption: 47 - 63 Hz 100W

Size and Weight

H: 150 cm / D: 58 cm / W: 58 cm

Weight: 55 Kg

Display movement: To the right or left 150° to up and down 15° $\,$

Display: Full touch screen

Digital Interfaces

USB: 4 pcs. / COM: 2 pcs.

HDMI: 1pcs. / LAN: 2 pcs.

Display Port: 1pc.

Mic. In: 1pc.





No: 2020/482 Subject: Biosis/Biyovent Invasive ICU Ventilator

TO WHOM IT MAY CONCERN

To the governmental departments, registration and certification institutions, health authorities and/or import offices in USA, Chile, Peru and Bolivia.

Authorization Letter

This letter confirms that TRAFALGAR HOLDINGS GROUP U.S.A. & LATIN AMERICA, 16607 Benton Taylor Drive Saint Louis Missouri 63005, USA is authorized by:

USHAŞ ULUSLARARASI SAĞLIK HİZMETLERİ A.Ş Sağlık Bakanlığı Bilkent Yerleşkesi Üniversiteler Mah. Dumlupınar Bulvarı 6001. Cadde No: 9 Kat: 8 ÇANKAYA 06800 ANKARA - TÜRKİYE

to sell our Biosis/Biyovent Invasive ICU ventilator for the USA, Chile, Peru and Bolivia.

Validity: 12 months from the date of this letter.

Termination: Confirmation ends automatically on 10th of November, 2021 and can be renewed or canceled by 30 days notice in advance.

Mehmet Ali **Director** Ge 10th of November



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