

biosys

BIYOVENT M

ICU Type Mechanical Ventilator





WHO ARE WE? ●●●

We started our journey in Ankara in a small office in 2012. Now, we are working with a team consisting of 50+ people, as **manufacturer of Turkiye's first ICU type mechanical ventilator.**

WHERE ARE WE IN THE WORLD? ●●●

Since our founding, we have reached over **40 countries** on **5 continents** with **19000+ device** making an impact on global health.

Turkiye

With the market share of **38%** with more than **6200 units.**

Brazil

The **largest single mechanical ventilator delivery ever made** in the world with **1752 units.**

Kazakhstan

With the market share of **15%** with **1680 units.**

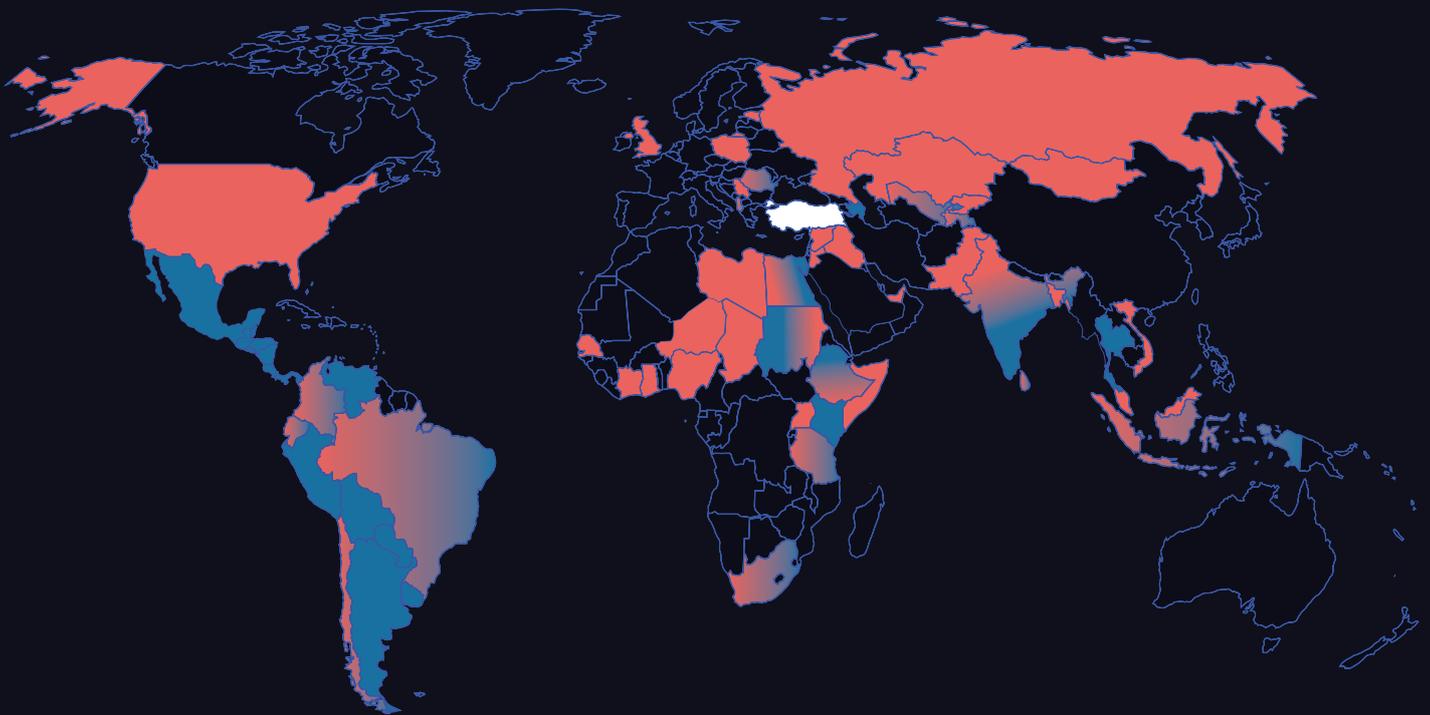
Romania

Delivery in **less than 16 days** after agreement with **384 units.**

Thailand

Delivery in **12 different cities** on the **same day** with **433 units.**

● Devices ● Distributors ● Devices & Distributors



Administrative Office in Ankara

HEADQUARTER

8000m2 Factory in Batman

FACTORY

Research & Development Office in Ankara

R&D OFFICE



TAILORED SOLUTIONS FOR EVERY PATIENT

Biovent offers personalized treatment by adapting ventilation settings to each patient's unique condition, from pediatric to adult. With adjustable modes such as Invasive, Non-Invasive, N-CPAP, and HFNC, it ensures flexibility and effectiveness in therapy.



**Invasive
and
Non-Invasive
Ventilation**



**Integrated
Nebulizer**



**High Flow
Oxygen
Therapy
and
N-CPAP**



**Suitable
for
Neonatal
Pediatric
Adult**



**Smart
Ventilation
Modes**



**Leak
and
Trigger
Compensation**



**Integrated
Battery**

EtCO₂

**End-Tidal
Carbon Dioxide
Measurement**



SpO₂

**Peripheral
Oxygen
Saturation
Measurement**

INNOVATIVE DESIGN, COMPREHENSIVE SOLUTIONS

Biyuvent, with its three-part structure, can be set up quickly and easily. Its ergonomic design, consisting of base, support, and main body parts connected to the screen, facilitates ease of installation.



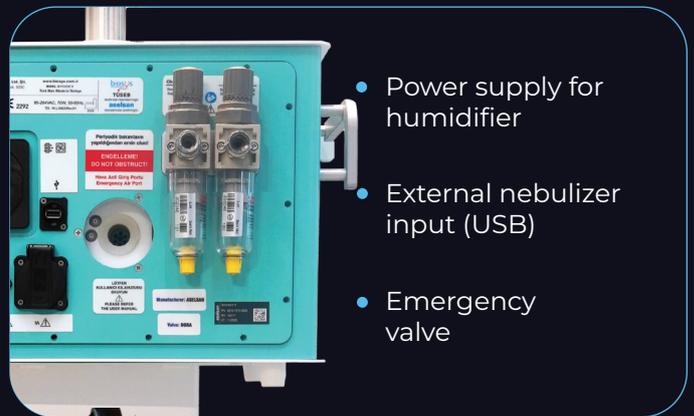
- Reusable, autoclavable expiration block
- Nebulizer outlet



- 15" High resolution color screen
- Easy mode transition
- Easily adjustable mode parameters
- Real-time monitoring of over 30 parameters



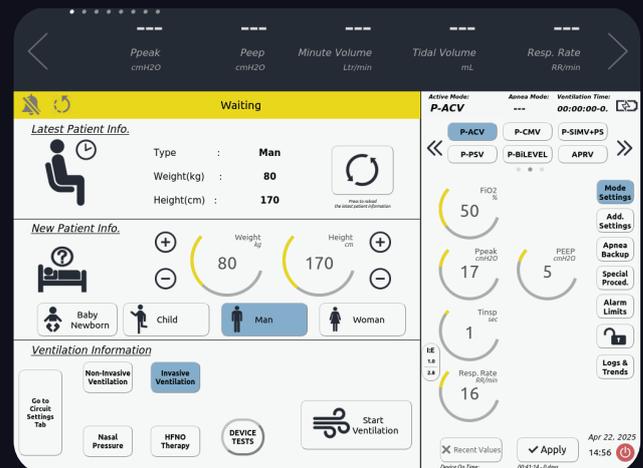
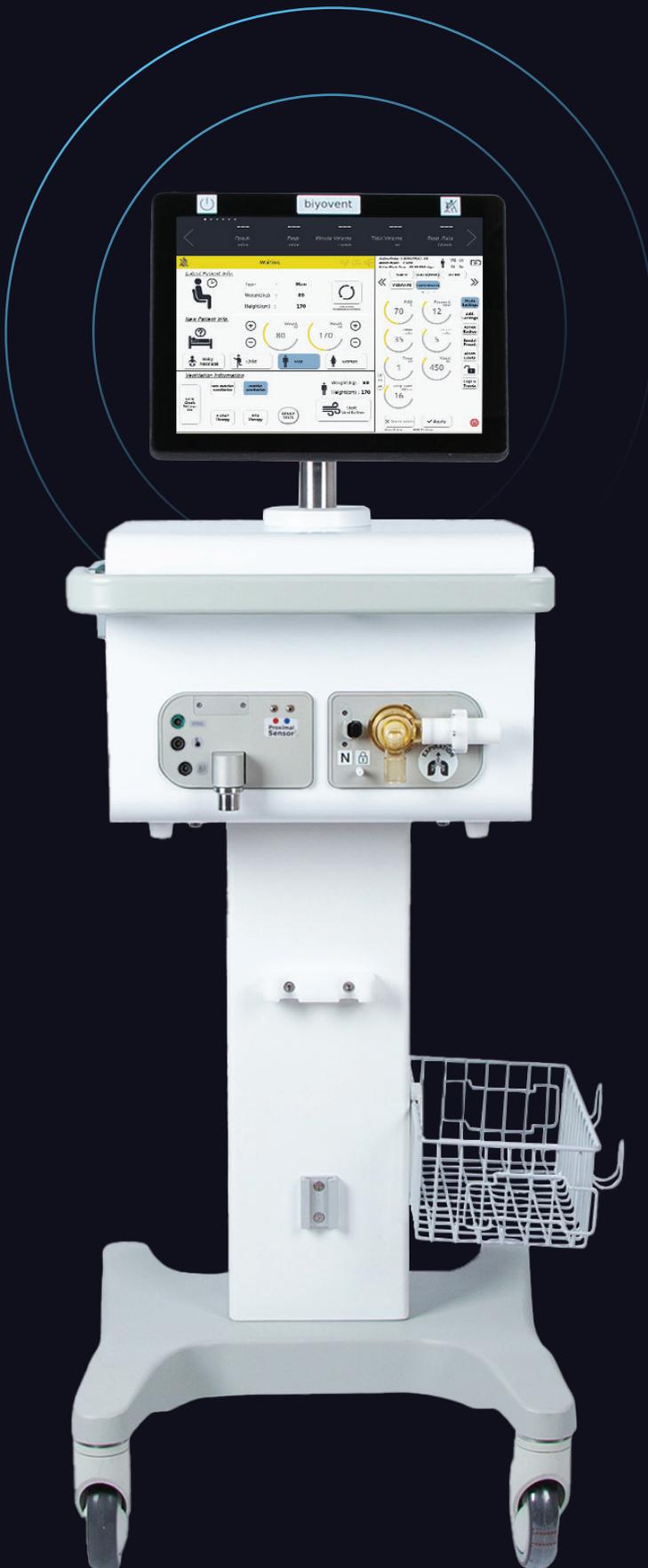
- Shock absorbing wheels
- Locking mechanism
- Safe design



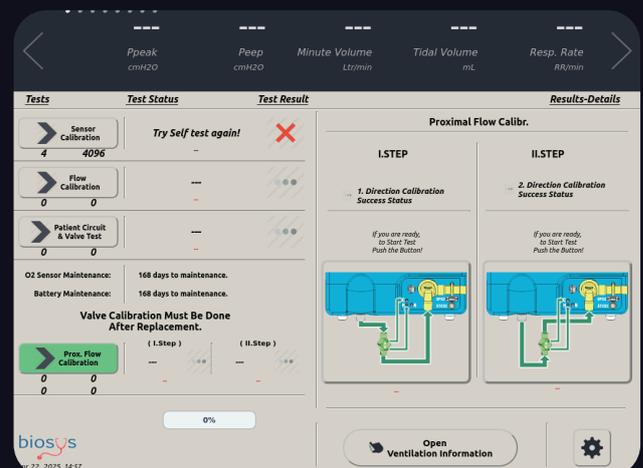
- Power supply for humidifier
- External nebulizer input (USB)
- Emergency valve



ADVANCED SOFTWARE, EASY OPERATION



With its user-friendly interface design, patient information can be entered easily, allowing parameters to be customized according to the patient.



Allows easy calibration in 3 steps through on-screen guidance
(Sensor, Flow, and Patient Circuit & Valve Test)



USER CENTERED SCREEN SYSTEM

Biyovent's advanced software and user-friendly interface allow simultaneous display of 3 waveforms, 3 loops, and lung dynamics, with access to 30+ parameters on a 15-inch high-resolution screen.



The smart respiratory monitoring feature, supported by a lung diagram, allows observation of the lung's dynamic condition.



Access to monitoring parameters through a single screen allows simultaneous observation of more than 30 parameters.

Modes ●●

Pressure Targeted Modes
P-ACV
P-SIMV+PS
P-CMV
P-PSV

Spontaneous Modes
S-IPPV
Additional Modes
N-CPAP Therapy
HFNC Therapy

Additional Features ●●●

Spontaneous Modes
SpO2 Probe
EtCO2 Probe
Temperature Probe
Proximal Sensor

Patient Compliance and Performance ●●

Respiratory Rate Adult and Pediatric : 4-100/Minute Neonatal : 8-150/Minute
Adult, Pediatric & Neonatal T inspiration: 0.1-10 Second
Pediatric Tidal Volume: 20-300 ml Adult Tidal Volume: 100-2000 ml Neonatal Tidal Volume: 2-100 ml
Pediatric Flow: 2-60 Litre/Minute Adult Flow: 2-120 Litre/Minute Neonatal Flow: 2-40 Litre/Minute

Working Features ●●●

Inspiration Pressure: 1-100 mBar
Peep Pressure: 1-50 mBar
Spontaneous Pressure Support: 0-100 mBar
Inspiration Time: 0.1-10 Sec.
O ₂ Mixture: 21-100%
I/E Rate: 1:10 (x60*)-10:1

Electrical Specifications ●●

Battery Life: 2 hour + 8 hour (Optional)
Mains Voltage: 84 - 264 VAC
Power Consumption: 47 - 63 Hz 100W

Pressure Source Features ●●

O ₂ Pressure: 2 - 7 Bar Centralized System or Oxygen Cylinder
Air Pressure: 2 - 7 Bar Centralized System or Oxygen Cylinder
Auto-switching and alarm notification when the source is depleted
Medical compressor / Ability to operate with a regulator

Digital Interfaces ●●

USB: 4 pcs. / COM: 2 pcs.
HDMI: 1 pcs. / LAN: 2 pcs.
Display Port: 1 pcs.
Mic. In: 1 pcs.

Dimensions ●●

Length: 150 cm / Depth: 58 cm / Width: 58 cm
Weight: 55 Kg
Screen Movement: Right or Left 150° Up or Down 15°
Screen: Fully Touchscreen