

biosys

BIYOVENT R

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 **4 continents** with **18000+ 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.**

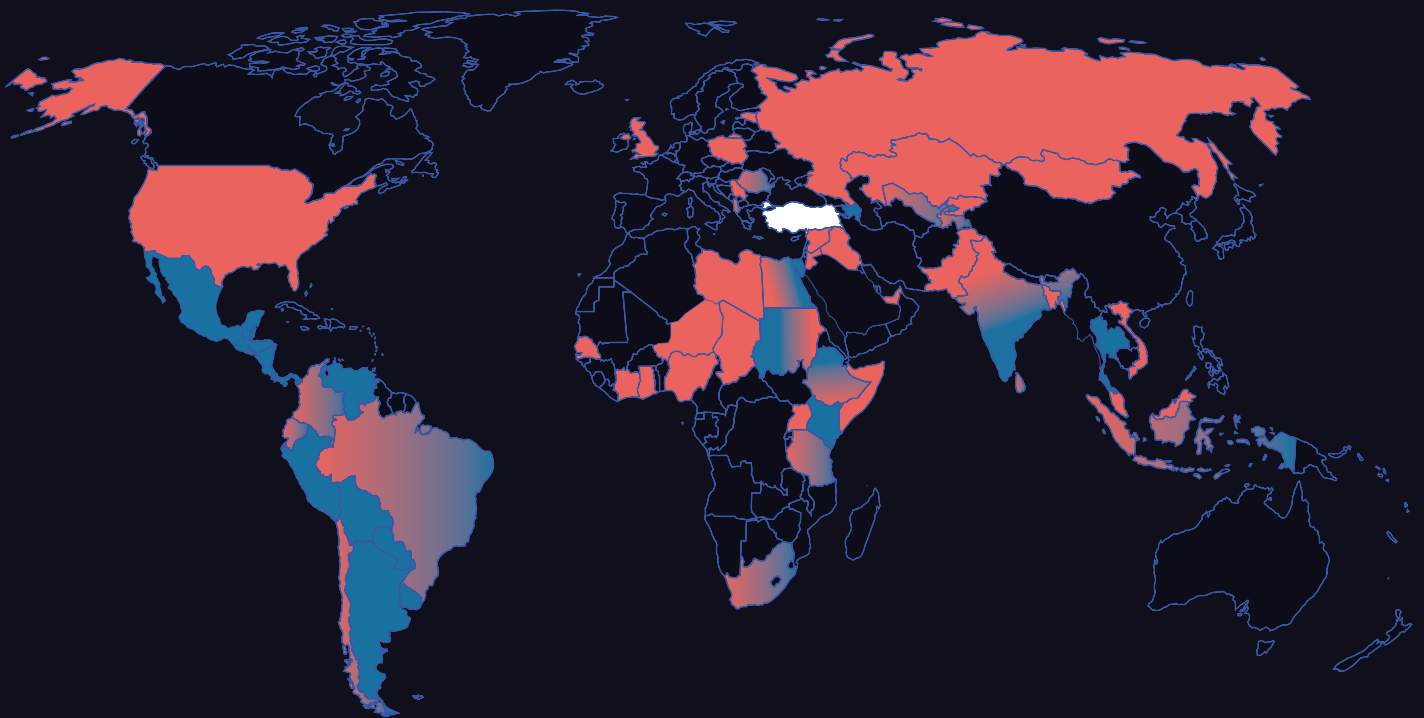
Romania

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

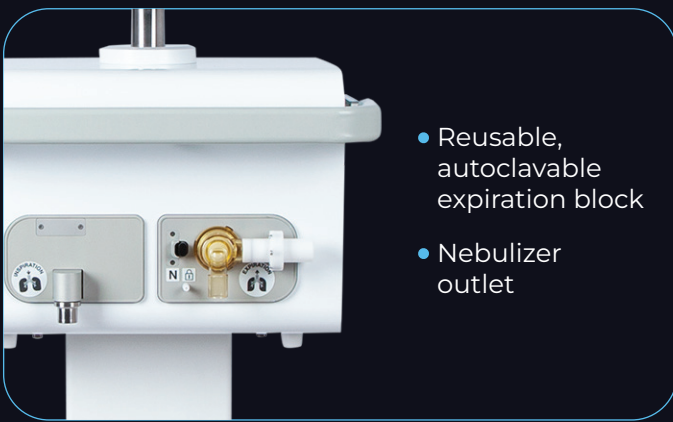
Research & Development Office in Ankara

R&D OFFICE



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.



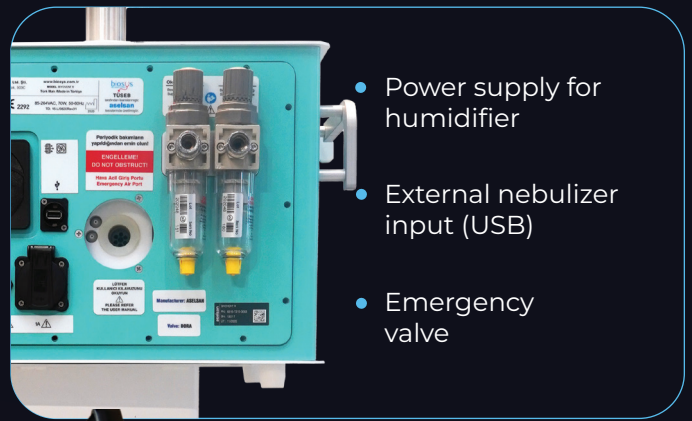
- Reusable, autoclavable expiration block
- Nebulizer outlet



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



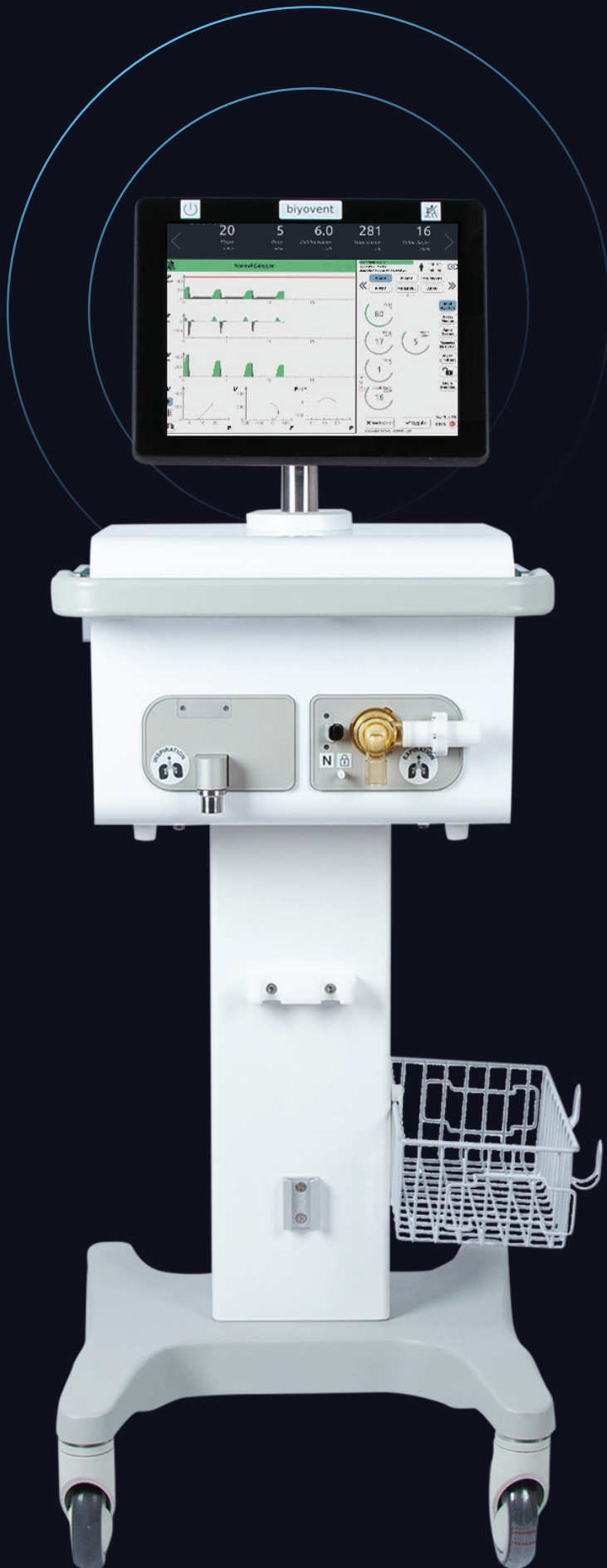
- Shock absorbing wheels
- Locking mechanism
- Safe design



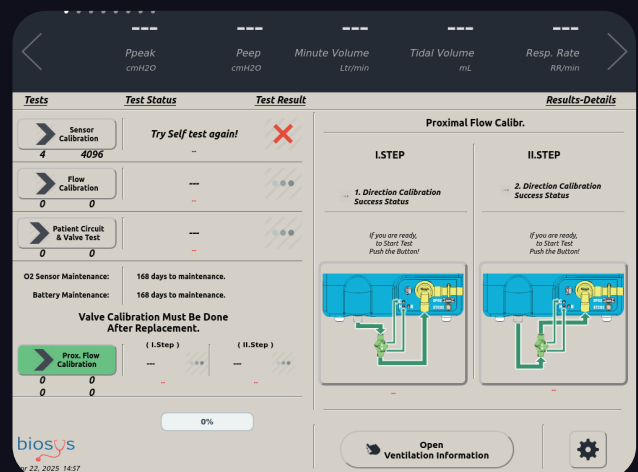
- Power supply for humidifier
- External nebulizer input (USB)
- Emergency valve



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.

SEAMLESS INTEGRATION, ADVANCED VENTILATION

Bioaqua humidifier seamlessly integrates with Biyovent to deliver reliable and personalized humidification across invasive, non-invasive, and HFO therapies.



Full Compatibility

Works flawlessly with all Biyovent ventilation modes.



Built-in Nebulizer

Integrated nebulizer ensures precise therapy with multiple flow rate options.



Easy Monitoring

Streamlined design allows quick and clear parameter tracking while connected to the ventilator.



Therapy Flexibility

Offers invasive, non-invasive, and HFO modes with adjustable temperature settings.



Modes ●●●

Pressure Targeted Modes	Volume Targeted Modes	Spontaneous Modes
P-ACV	V-CMV	SPN-PS
P-SIMV+PS	V-ACV	SPN-VS
P-CMV	V-SIMV+PS	Additional Modes
P-PSV	V-ACV(PRVC)	N-CPAP Therapy
P-Bilevel	V-SIMV(PRVC)+PS	HFO Therapy
APRV	Smart Mode: SAV	

Patient Compliance and Performance ●●●

Adult and Pediatric
Respiratory Rate: 4-100/Minute

Adult and Pediatric
T inspiration: 0.1-10 Second

Pediatric Tidal Volume: 20-300ml
Adult Tidal Volume: 100-2000ml

Pediatric Flow: 2-60 Litre/Minute
Adult Flow: 2-120 Litre/Minute

Working Features ●●●

Inspiration Pressure: 3-100 mBar

Peep Pressure: 1-50 mBar

Spontaneous Pressure Support: 0-100 mBar

Inspiration Time: 0.1-10 Sec.

O₂ Mixture: 21-100%

I/E Rate: 1:10 (x60*)-10:1 (p): Pediatric, (a): Adult

Electrical Specifications ●●●

Battery Life: 2 hour + 8 hour (Optional)

Mains Voltage: 84 - 264 VAC

Power Consumption: 47 - 63 Hz 100W

Pressure Source Features ●●●

O₂ 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