Product Catalog

biosys

www.biosysmed.com | 0850 800 6297

MEDICAL INNOVATIVE TECHNOLOGIES

Bio_2Flow, Biyovent, Bioaqua and Bioscope devices, which are developed after a detailed preliminary investigation and designing process based on the field experiences of physicians and health care professionals, have a revolutionary value.

The design and quality of all our devices come into prominence as in the intensive care ventilator design thanks to the collaborative work of Aselsan, Arçelik, Baykar, and Biosys R&D engineers with high knowledge, equipment, and experience.

Since 2012, Biosys has been producing innovative medical technologies with the combination of R&D experience of engineers who are experts in their fields, and doctors with high experience in the field, and creating new generation solutions by determining the needs of the sector. Biosys is continuously working for the purpose of improving health services across the world and helping more people to access these services.

Biosys, which had formerly made a global impression and achieved a life solution for patients with respiratory difficulties, now strives to bring sound to the world through its new devices.

DETAILED RESEARCH
CORRECT RESULT

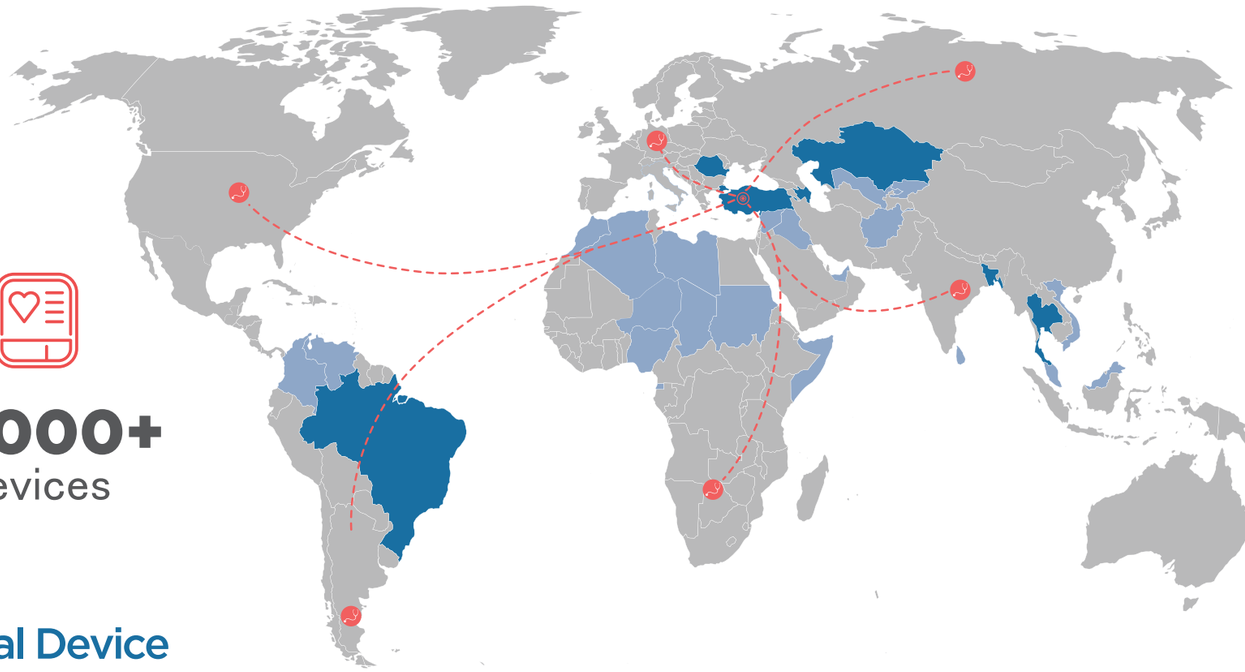
NOW

NOW

4
continents

40+
countries

15000+
devices



FUTURE

Patient Monitor
Endoscopic Capsule
Home Type Ventilator
Anesthesia Device
Nebulizer

FUTURE

We Make a Difference in the **Medical Device Industry** with New Generation Technology.

As Biosys, we realized that, as a result of our research to meet the needs of the health sector, there are deficiencies, especially in medical device systems and that these deficiencies directly affect both healthcare professionals and patients. In the direction of this awareness, we have developed the Biyovent Intensive Care Type Mechanical Ventilator Device as a result of the 5-year R&D work that we have progressed with the opinions of experienced doctors.

While we are leading the way in Turkey for the production of intensive care type mechanical ventilator devices through Biyovent, which we developed with the support of the Republic of Turkey Ministry of Science, Industry, and Technology, TÜBİTAK, Bilkent University Cyberpark, we also make a difference in the world's health sector thanks to its high-level features. In addition to achieve great success in a short time with this new generation technology, we also make contributions to the health of many people all around the world.

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bioaqua biO2flow bioSCOPE BİYOVENT

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biyovent

Intensive Care Type Mechanical
Ventilator Device

EFFICIENT TREATMENT FOR THE NEEDS OF EACH PATIENT

Biyovent, the intensive care type mechanical ventilator device, has been designed for patients who cannot breathe by themselves or who have difficulty in breathing. Biyovent, which was actualized for the purpose of offering products with a high technological threshold value, fully meets the needs with its new generation technology. It offers high-quality for both technology and health thanks to its characteristics that cover all the deficits that the ventilators used so far cannot offer and cannot meet the demands of doctors.

- Invasive and Non-invasive Ventilation
- **Integrated Nebulizer**
- High Flow Oxygen Therapy and N-CPAP (nasal C-PAP)
- **Suitable for Pediatric, Adult and Newborn (Optional) Patients**
- Smart Ventilation Modes

- 15" high resolution color touch screen
- Easy switch between modes
- Mode parameters that are adjusted easily
- Possibility to monitor synchronously more than 30 parameters
- Multi-use autoclavable expiration block

- Power supply for humidifier
- External nebulizer inlet (USB)
- Emergency Valve
- Safe Design
- Easy to use
- Nebulizer outlet

Ventilation Modes Suitable for All Ages and Conditions

- 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)+PS)
- Spontaneous Modes (SPN-PS SPN-VS)
- Smart Modes [SAV(WOB Optimization)]

biO_2flow
HFO Device

PREVENTIVE CARE AND TREATMENT AT THE OPTIMUM LEVEL

The high-flow oxygen therapy provided by BiO_2Flow decreases the possibility of patients being intubated. In addition, it allows the patient to be treated without the need for intensive care. Intended oxygen therapy can be administered to the patient through the product developed after long R&D processes and by analyzing the needs of the health sector.

Designed for health care professionals, and optimized for patients

Hardware and software features of BiO_2Flow, which can be operated by a single button, enable its use for patients with respiratory failure, post-cardiac surgery, heart failure, bronchoscopy, and post-extubation. In other cases, in which there is a high need for BiO_2Flow, it can also be used.

- Integrated Nebulizer
- Integrated Battery
- Flow rate up to 100 lpm

High-level treatment and precautions taken against all situations

BiO_2Flow has been designed in a way that it can detect all possible situations and give a warning through its sensors and valves. BiO_2Flow, which is the safest high-flow oxygen therapy device in its class, successfully passes the tests and offers high quality and safety simultaneously.

- System pressure sensor that prevents leakage even in very sudden pressure changes
- Turbine
- Immediately detected sensors and advanced alarm system that warms of all possible
- Exterior design with V_0-flammability class

Both stylish and functional

- A modern and compact design
- Easy-use with one-touch button
- Special carrier foot that provides transport advantage
- Oxygen tube that can be connected to the carrier foot
- A perfect combination of advanced engineering and contemporary design

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bioSCOPE

Reliable Protection
of Nerve Functions

RELIABLE PROTECTION OF NERVE FUNCTIONS

The Bioscope Neuromonitor Device has been designed to detect possible neurological damages that may arise during operation. It provides patient safety by assessing the nerve location and function integrity during surgical operations. It directs the physician with audible and visual feedback in operations and prevents injury and permanent damage.

Operations in which it is used

- Thyroid
- Parathyroid
- ENT
- Hand and Facial Surgery

Principle of Operation

Electrical stimuli are sent through stimulator probes during intraoperative neuromonitoring. The stimuli sent cause changes in muscle activity. This change is detected through EMG electrodes. The signals collected are monitored on the screen, and Bioscope interprets the data and detects the 'nerve-tissue' differences.

General Specifications

- Maximum patient and physician safety
- One-touch complete reporting and documentation
- Significant vocal notifications in nerve-tissue seperation
- Optional post-case data transfer via Bluetooth and cable
- Prevention of risk of persistent hoarseness and respiratory disturbance
- Lower treatment cost

Technical Specifications

- 2-channel neuromonitoring
- Easy to adjust stimulator, audio, display and system parameters
- High output and measurement precision

CE

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bioaqua

Ventilator Compatible
Humidifier

INNOVATIVE DESIGN, FUNCTIONAL USE

The Bioaqua Humidifier has been designed to provide that the medical gas to be delivered to the patient at a set flow rate is delivered to the temperature and humidity appropriate for the patient's condition. Consequently, it prevents complications that may arise from dry and cold air when used with the ventilator.

- Adjustable Invasive and Non-invasive Ventilation
- Integrated Nebulizer
- Superior protection with high safety measures
- for Pediatric, Adult and Newborn Patients
- Compatible with Commport (Communication Port)

Performance

- User-friendly easy interface
- 3.5-inch high-resolution touchscreen and functional keys for each feature
- Nebulizer, which is integrated to device, with mesh technology that breaks up the drug into aerosols smaller than 5µm
- 3 different drug delivery modes as Fast-Medium-Slow
- Easy Portability
- Possibility to set 10 different temperatures between 31°C- 40°C
- Humidification performance:
  Invasive: >33mg/L
  Non-invasive >10mg/L
- Warming up in less than 30 minutes
- Default Setting: Invasive (31°C), Non-invasive (35°C)

CE

biO2flow | Consumables

HFO Device

1

Patient circuit with heating wire
BIO03-025

2

Nasal Cannula
BIO01-047

3

Nebulizer Set with T-part
BIO03-019

4

Heating Adaptor
BIO03-023

5

Temperature Probe
BIO03-024

6

Chamber
BIO03-018

7

Bacteria Filter
BIO03-002

biyovent | Consumables

Intensive Care Type Mechanical
Ventilator Device

1

Patient circuit with heating wire
BIO01-117

2

Nasal Cannula
BI001-047

3

Chamber
BIO01-026

4

Flow Sensor
BIO01-049

5

Nebulizer Set with T-part
BIO01-112

6

Expiration Valve
BIO01-050

7

Adult Patient Circuit
BI001-027

8

Bacteria Filter
BIO01-020

bioSCOPE | Consumables

Reliable Protection of
Nerve Functions

1

Neurobox
BIO12-006

2

Emg Endotracheal Tube
BIO12-001

3

Bipolar Prob
BIO12-004

5

Monopolar Prob
BI012-003

bioaqua | Consumables

Ventilator Compatible
Humidifier

1

Patient circuit with heating wire
BIO05-005

2

Chamber
BIO05-006

3

Nebulizer
BI005-003

4

Nebulizer Cable
BI005-004

biosys 2023
Product Catalog

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