

Expertly
Carefully
Functionally



МОБИВЕНТ

A device for controlled and assisted lung ventilation for children and adults

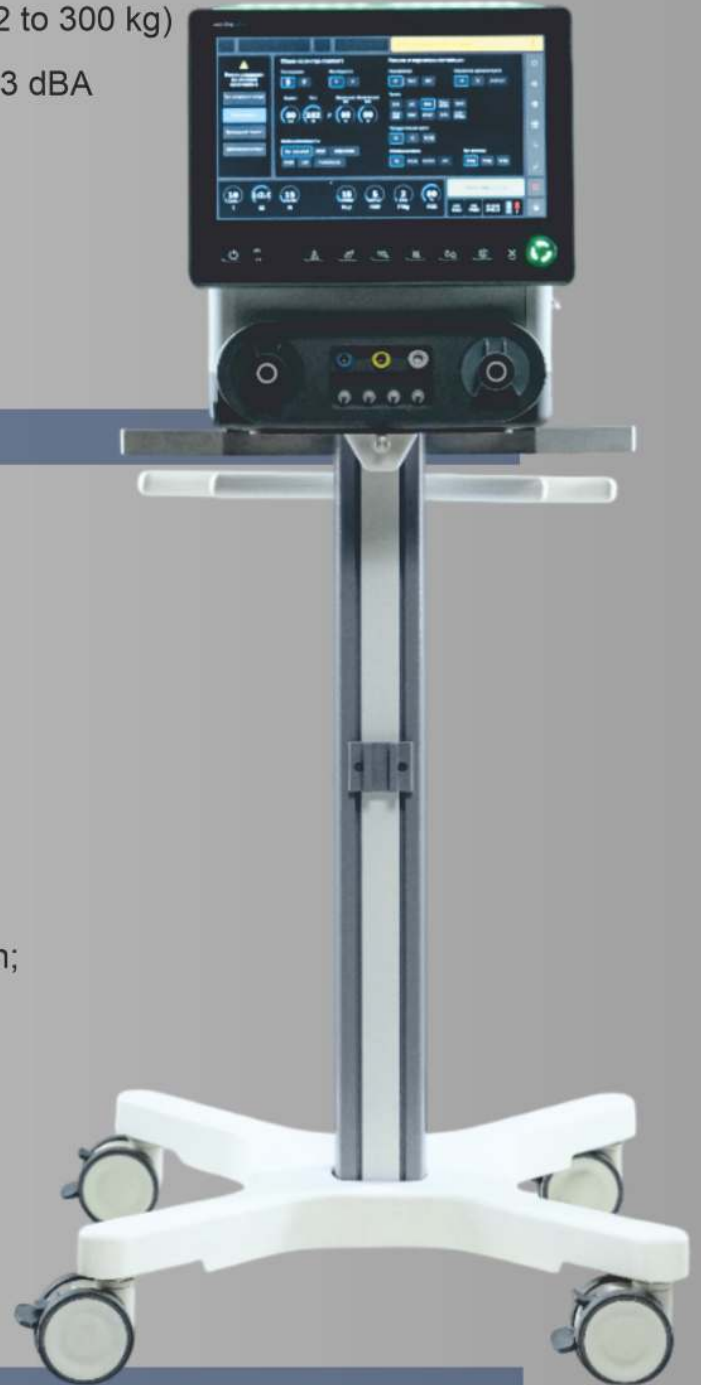
Basic specifications:

- Weight: 13.2 kg, weight on a trolley 34.5 kg
- Display: touchscreen, color, adjustable tilt angle
- Display size: 15.6"
- Drive: turbine
- Patient categories: children and adults (from 2 to 300 kg)
- Noise level during ventilator operation up to 43 dBA



Main ventilation parameters:

- Tidal volume: 10–3,000 ml
- Inspiratory pressure: 0 - 100 cm H₂O
- PEEP: 0-50 cm H₂O
- Ventilation frequency: 1–150 1/min
- I:E: 1:99–60:1
- FiO₂: 21–100%
- Trigger type: flow, pressure, volume
- Gas mixture flow in HFlow mode: 1–100 l/min;
- Plateau time: 0–3 s
- Apnea time: 2–80 s



Ventilation modes:

CMV, A/C, SIMV, Apnea, DUAL-LEVEL, APRV, Auto-MVG, CPAP, SPONT, Hflow, CPR, Auto-MVG PLUS

Design and interface features:

- Operating with a low-pressure oxygen source
- Setting up the initial parameters and alarms according to body mass index (BMI) for 2–300 kg
- Setting up the initial parameters and alarms for heights ranging from 50 to 250 cm
- Setting up the initial parameters and alarms according to the patient's condition
- Graphic and tabular trends up to 720 hours
- Two built-in Li-Ion batteries provide up to 15 hours of autonomous operation
- Adjusting the viewing angles of the screen
- Quick start of ventilation
- Hot-swappable internal battery
- Built-in telematics module
- The display brightness automatically adjusts depending on the lighting conditions
- Up to 10 ventilation program templates can be set up, stored and used
- Work with biaxial and monoaxial breathing circuits
- The user manual is built into the device menu



Monitoring features:

- Digital monitoring of up to 88 parameters
- Simultaneous display of 4 curves
- A group of parameters to be monitored for the metabolism function
- A group of parameters to be monitored for CO function, including the oxygen transport index
- A group of parameters to be monitored for the functional residual capacity (FRC) function
- A group of parameters to be monitored for spontaneous breathing test (SBT)
- A group of parameters to be monitored for the volumetric capnometry function (VCO₂)
- Internal trends for each function and procedure
- Alarm and event log for 10,000 messages

Main parameters to be monitored:

- Peak airway pressure, ml
- PEEP
- Expiratory tidal volume, ml
- Inspiratory tidal volume, ml
- Total respiratory minute volume, ml
- Frequency of minute ventilation, 1/min
- I:E
- Dynamic compliance, ml/cm H₂O
- Dynamic resistance, cm H₂O/ L/s
- Oxygen concentration in gas mixture, %
- Plateau pressure, cm H₂O
- Driving pressure (P_{peak} - PEEP), cm H₂O
- PTP (Pressure-Time Product) index
- RSB Index, (RSB-I)
- Mean airway pressure, cm H₂O
- Residual pressure in the lungs (internal PEEP), cm H₂O
- Tidal volume per 1 kg of ideal patient weight, ml/kg
- Residual air volume in the lungs with intrinsic PEEP
- Minute volume of spontaneous breathing, l/min
- Ratio of spontaneous breathing to minute volume, %
- Forced breathing rate, 1/min
- Spontaneous breathing rate, 1/min
- Inspiratory time, s
- Expiratory time, s



Options	Version 1	Version 2	Version 3	Version 4
Oxygenation	✓	✓	✓	✓
Recruitment	✓	✓	✓	✓
Single-stage recruitment (10x40)	✓	✓	✓	✓
P/V manoeuvre	✓	✓	✓	✓
Lung Insufflation Assistance (LIAM)	✓	✓	✓	✓
Automatic Tube Compensation (ATC)	✓	✓	✓	✓
Automatic delivery of intermittent mandatory inspiration (Sigh)	✓	✓	✓	✓
Maximal inspiratory pressure (MIP)	✓	✓	✓	✓
Non-invasive ventilation (NIV)	✓	✓	✓	✓
Integration with medical information system	✓	✓	✓	✓
Remote troubleshooting	✓	✓	✓	✓
Telematics	✓	✓	✓	✓
Automatic flow reduction when disconnected (AUTO Disconnect)	✓	✓	✓	✓
CPR	✓	✓	✓	✓
Automatic closed loop FiO ₂ level control (AKOR)		✓	✓	✓
Auto-PEEP		✓	✓	✓
EtCO ₂ , %		✓	✓	✓
SpO ₂ , %		✓	✓	✓
Plethysmography Variability Index (PVI, %)		✓	✓	✓
Pulse Rate (PR, 1/min)		✓	✓	✓
Oxygenation Saturation Index (OSI)		✓	✓	✓
SpO ₂ /FiO ₂ ratio		✓	✓	✓
Volumetric capnometry function (VCO ₂)		✓	✓	✓
Measurement of intraesophageal pressure to record transpulmonary pressure (Ptp)			✓	✓
Endotracheal tube cuff pressure maintenance (Pcuff)			✓	✓
Measurement of functional residual capacity (FRC-C)				✓
Spontaneous Breathing Trial (SBT)				✓
Functionality for measuring metabolic parameters using indirect calorimetry method (REE)				✓
Cardiac output calculation(CO, CI, SV/ SVI, DO ₂)				✓
Automatic ventilation mode maintaining the minimum required minute ventilation (Auto-MVG+ (ACLV))				✓