

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

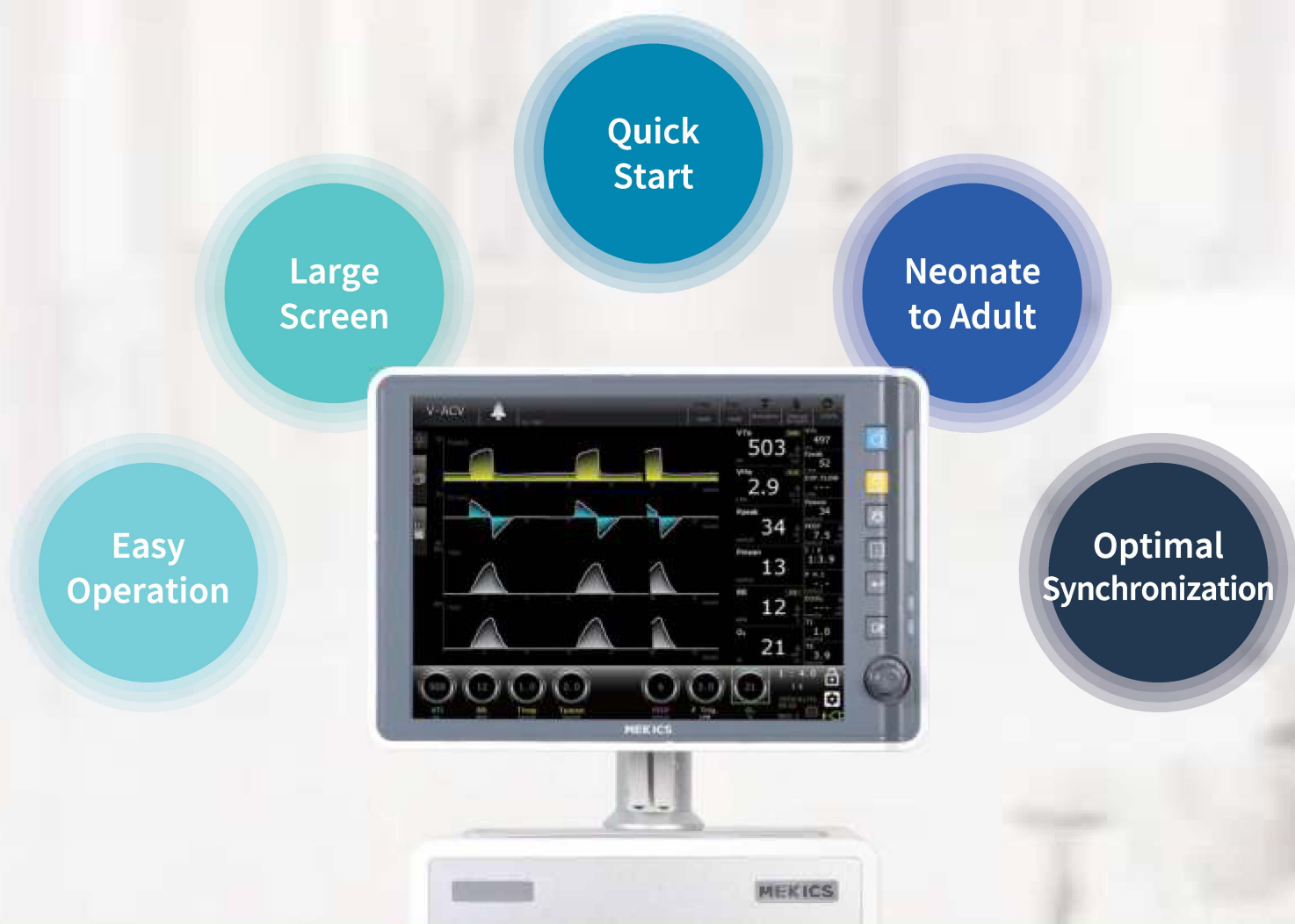
<https://mekics.nt-rt.ru> || mik@nt-rt.ru

All in one
Intensive Care
Ventilator solution

MV2000

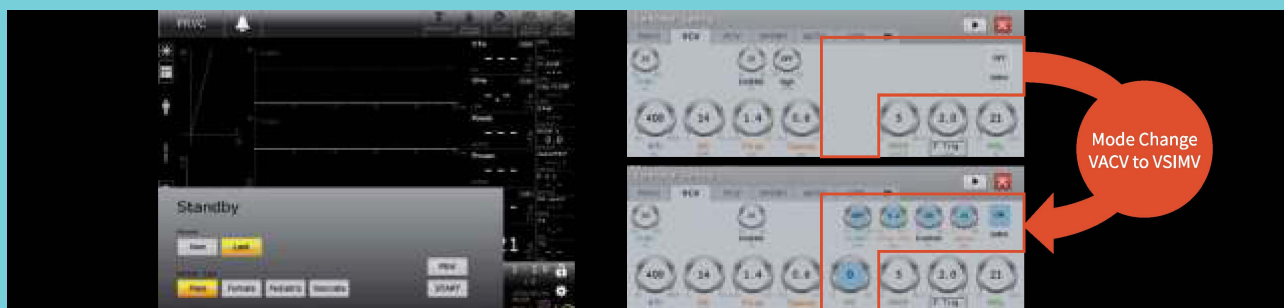


Easy, Safe and Comfort Intensive Care Ventilator



Comfort Use Ventilator

15 inch TFT LCD screen with Easy & Simple UI



Various ventilation modes

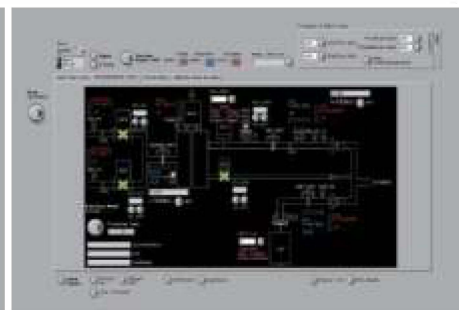
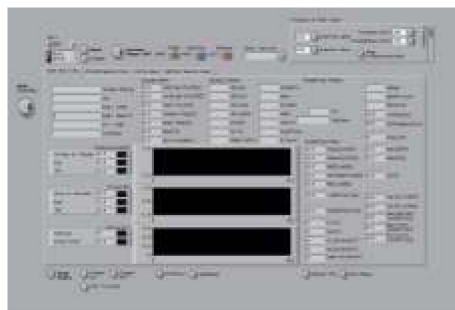
Specification Ventilation Mode

PACV, PSIMV, VACV, VSIMV, Apnea Back-up ventilation, Spont, O₂ Stream®, PRVC, Bi-Level, AwPRV, AutoVent®, TCPL-AC, TCPL-SIMV, PRVC-SIMV, CPR

Specification Optional Ventilation Mode

SHFV®, DHFV®

Easy to manage Ventilator



Parts remaining time indication

- Improved intuitiveness of maintenance
- Efficient management of expected replacement time
- Reminder display with automatic alarm system when replacement cycle is imminent

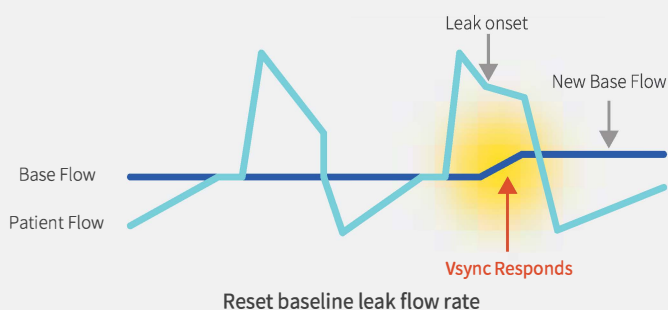
Smart PC viewer system (PC program)

- Easy to understand with block diagram
- Easy to check internal system status
- Easy to adjust & calibrate without disassembly (Programmable pneumatic system)
- e-Manual & e-Instruction

Ventilator with patient's safety

Leak compensation and triggering sensitivity

MV2000 Leak Compensation is up to 25 l/min, it helps to prevent auto-triggering and asynchrony caused by leaks.



Patient-ventilator asynchrony is typically uncomfortable for the patient. In addition, it may have an impact on patient outcomes.

***Epstein** put together a list of adverse effects associated with poor patient-ventilator interaction.

- A higher or wasted work of breathing
- Patient discomfort
- An increased need for sedation
- Confusion during the weaning process
- Prolonged mechanical ventilation
- A longer stay
- The possibility of higher mortality

During mechanical ventilation, system leak is a major cause of patient-ventilator asynchrony. Leaks may be caused by the endotracheal tube cuff, ventilator circuit, or chest drain during invasive ventilation. The incidence of endotracheal tube cuff leaks has been reported at ranges from 11% to 24%.

Rise time & patient cycling in mandatory breath (PRVC, PCV, TCPL)



*** Epstein** ([FOOTNOTE=Sassoon C. Triggering of the ventilator in patient-ventilator interactions. Respiratory Care. 2011;56(1):39-51.]

Reduce Ventilator Induced Lung Injury

Lung protection tool



The MV2000 lung protective tool is one of the solutions to perform lung recruitment maneuvers.

The lower inflection point indicates the point at which collapsed airways reopen. This can be affected by both airway closure and alveolar collapse (causing the point to be farther to the right – more pressure required to open the airways).

The upper inflection point represents the point at which further applied pressure will result in over-distention. The ventilator will automatically recalculate the ΔV once the new inflection point is identified.

High frequency ventilation for rescue use



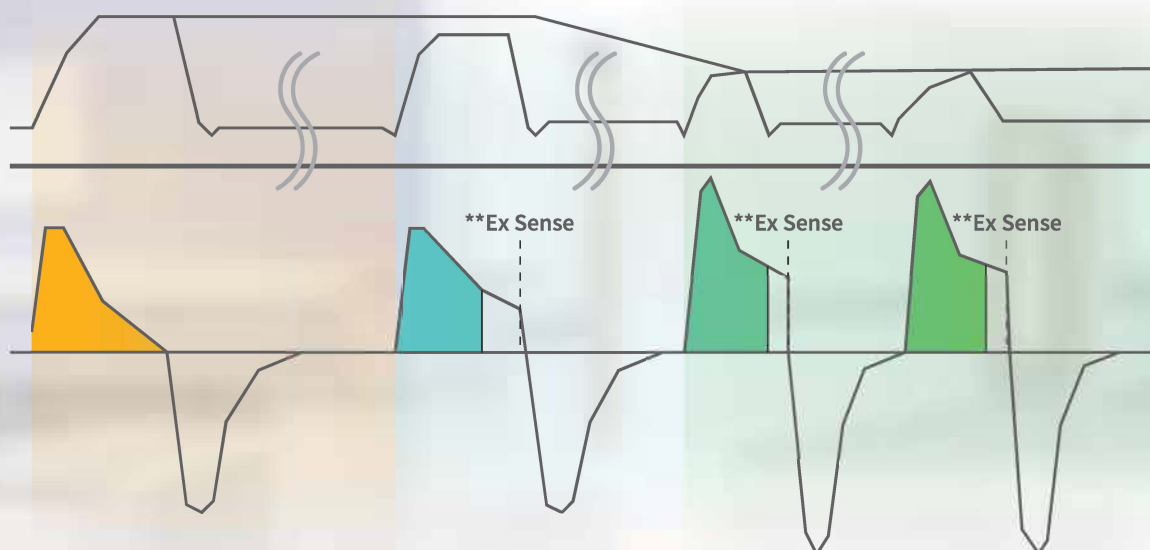
MV2000 provides a high level of clinical performance for all the clinical demands from conventional to high frequency ventilation. MEKICS unique pneumatic technology extends the applicability of MV2000 EVO 5 to HFV without any additional hardware apparatus such as specific breathing circuit and respiratory tubes. It has also the possibility to extend the use from neonatal to adult patient.

AutoVent

Status 1
CMV + No Trg

Status 2
CMV + Trg

Status 3
Spont + PS



Esophageal pressure



The problem of determining patient's PEEP is a very important issue in determining alveolar adsorption and basal lung pressure. If the patient's PEEP is set low, gas exchange is difficult to be sufficient, and if it is excessively large, the patient's lung will be stressed. By measuring esophageal pressure, trans-pulmonary pressure can be inferred. It helps to set the PEEP proportional to the trans-pulmonary pressure.

Tracheal pressure



Patient's circuit and intubation, ET tube, leakage, etc. may cause patient to have pressure in the lung and measurement error of the equipment. This function allows the ventilator to be controlled by measuring the direct pressure by insert a catheter into the intubation tube. The airway pressure displayed on the ventilator is higher than the set value.

In single mode, ACV, SIMV and spontaneousness operates actively according to patient's condition and guarantees minute volume simultaneously.

There is no respiratory function for abnormal situation, especially at the recovery room. However, in case of self-sustained respiration after the end of anesthesia, it is necessary to maintain the patient's respiration by mechanical ventilation (spontaneous breathing) or with other effective ventilation mode.

Predicted Body Weight

When if PBW function being used, the single ventilation amount of mechanical ventilation is determined to Predicted Body Weight formula based on selected patient's category and gender. The default setting value is 8 ml/kg. This value can be changed in the BWF (Body weight factor) field in the SYSTEM column of the active window. When operated with PBW turned on, the setting value of the once ventilation amount is limited according to the set patient's height and gender's BWF setting.

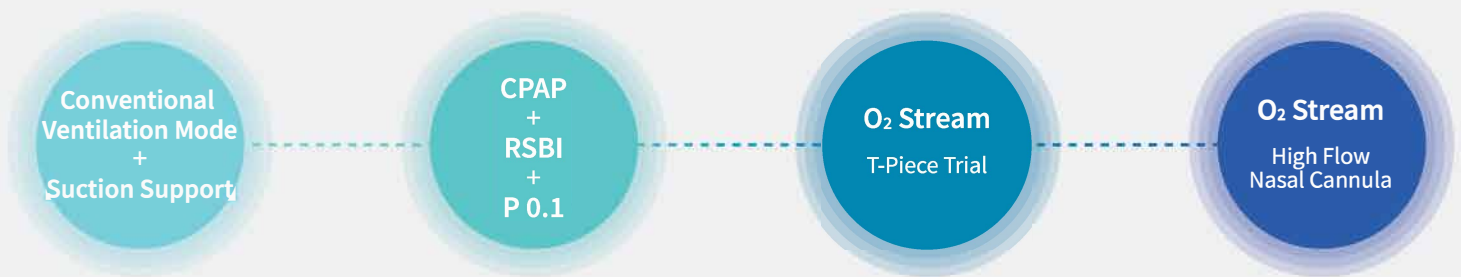
CPR ventilation (Cardiopulmonary Resuscitation)

CPR mode helps to patient ventilation in the CPR situation of patient.

Non-disconnection solution to avoid Ventilator-Associated Pneumonia

Weaning the ventilation is possible without disconnected mechanical controlled ventilation Till to T-piece trial ventilation.

Successful Weaning with variety Modes

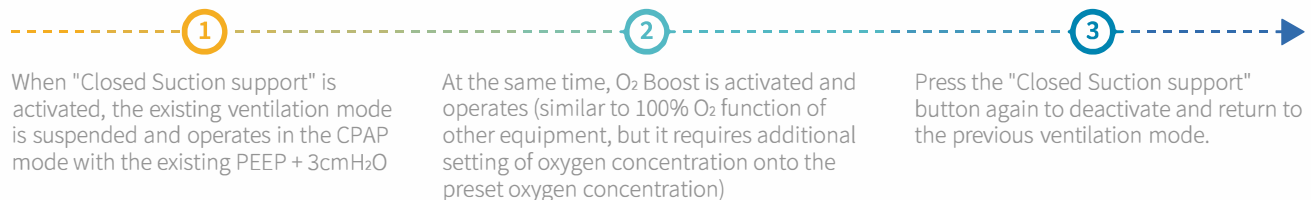


Closed Suction Support

Auto-triggering can be occurred caused by the negative pressure that occurs during suction, which can be increased the asynchrony.



Operating Scenario



SpO₂, EtCO₂ Measurements Hemodynamics

This option can provide information of metabolic CO₂ and SpO₂ as the result of respiration. This information can be useful to a clinician for patient care without independent gas monitoring system and for reducing complete dependency on Arterial Blood Gas Analysis (ABGA).



Two type of nebulization system

MV2000 EVO 5 offers Micro-pump Nebulizer & Pneumatic Nebulizer.

Standard : Pneumatic nebulizer (Power source)

Option : Micro-pump nebulizer (Aerogen)

Monitoring parameter for ventilator weaning

RSBI Rapid Shallow Breathing Index

P 0.1 Respiratory Drive (P 0.1), is the negative pressure that occurs 100 ms after an inspiratory effort has been detected

RR spont. Spontaneous breath rate

VEmin S. Spontaneous minute volume

O₂ Stream High Flow Nasal Cannula Therapy

It is non-invasive respiratory therapy to improve of lung oxygenation that as supplying the heated and humidified oxygen requirements that exceed the patient's inspiratory peak flow rate through nose, reduce the intake of work of breathing, increase the functional residual capacity by rising of PEEP, optimize the nasal and the status of the mucosa of the upper respiratory track, and reduce the residual exhalation gas of dead space anatomically.

Feature of Nasal High Flow Oxygen Therapy

- Efficient Oxygenation
- Washout of nasopharyngeal dead space (CO₂ Ventilation)
- Increase Functional Residual Capacity
- Reduce Work Of Breathing
- Reduce Energy Cost of Gas Conditioning



All in One Central Monitoring System



Dual LCD screen : 32 bedsides patient monitoring system

Single LCD screen: 32 bedsides monitoring display

10 days graphic trend for each patient monitor

Displays 12 waveforms of patient monitoring for each patient monitor

Displays 3 waveforms of a ventilator display

Available wireless LAN or Cable wired network

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://mekics.nt-rt.ru> || mik@nt-rt.ru