

MEDISYS[®]

MEDISYS MEDIVANT GOLD VENTILATOR WITH COMPRESSOR & HUMIDIFIER ICU VENTILATOR



The ventilator is most advanced in technology offering features to meet the demands of critical care applications.

It maintains the much needed patient-ventilator synchrony and ensures superior patient comfort.

The choice of invasive and non-invasive ventilation modes makes it a universal ventilator for use on adult to paediatric patients.



MEDISYS[®]

MEDISYS MEDIVANT GOLD

VENTILATOR WITH COMPRESSOR & HUMIDIFIER

ICU VENTILATOR

Medivent Gold uses the most modern and advanced technology in pneumatics and micro-controller electronics thus ensuring effective and efficient ventilation for the critically ill patients.

It focuses on safety and patient comfort by way of its advanced modes and meets the challenge of different clinical situations. Its feature of breath to breath correction ensures optimum ventilation against change in lung characteristics.

Flexibility

The ventilator runs on the dual supply of compressed air and oxygen. However, if failure occurs in either of the gases, the ventilator runs on the optional supply available.

Interactive modes

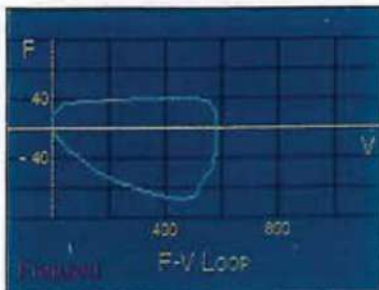
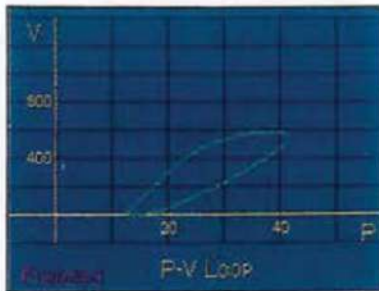
Apart from the control and support modes, the ventilator provides Autoshift mode where the control mode automatically shifts to the corresponding support mode when the patient takes three consecutive breaths and vice-versa.





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Loops and curves



Simultaneous display of PT, FT and VT curves along with PV and FV loops provide a way to assess the ventilation. The analysis helps to take a corrective measure if needed.

Diagnostic tools

The loops can be frozen for its analysis using cursor to determine compliance, hysteresis, and lower and upper inflection points. It enables to set PEEP especially for ARDS and ALI cases.

Oxygen sensor calibration

The auto calibration of Oxygen Cell accounts for the precise control of FiO_2 and warns against exhausted or defective cell.

NIV mode

The ventilator provides extensively designed non invasive ventilation. It compensates for leaks in the mask and follows the patient's spontaneous breathing pattern to give optimum comfort. It has apnea backup to meet an eventuality.

Alarm log

The ventilator keeps a record of alarm events occurred in sequence with time of happening. The record may be viewed later on by clicking the alarm profile.

Patient data



The ventilator has ergonomic layout for easy handling. The vital patient data with the alarm thresholds are placed in vertical column on the right of the panel. The data include monitored FiO_2 , Plateau Pressure, inspired and expired Tidal Volume.

Emergency setting

The Quick Start mode offers setting of default parameters by just entering the body weight of the patient. It is really helpful at the time of emergency.

Easy access of parameters



The vital set parameters relevant to the mode can be easily accessed by the single control knob and changed as displayed in the pop-up window.





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ICU VENTILATOR

Features :

- 12.1 inch colour TFT screen
- PV and FV loops
- PT, FT and VT curves
- Calculation of lung mechanics
- Both pressure and flow triggering
- Quick start mode
- Automatic O₂ cell calibration
- NIV facility
- Built in Nebulization
- Alarm data log
- Servo controlled O₂ blender
- Breath to breath correction
- Apnea backup
- Emergency 100% oxygen
- Battery backup

Specifications:

Gas supply	: Air and Oxygen at 3 to 4 kg/cm ²
Modes	: VC, PC, PRVC, PS, VS, SIMV (VC) + PS, SIMV (PC) + PS, SIMV (PRVC) + PS, 2PAP + PS, APRV & Autoshift interactive
FiO ₂	: 21 to 100%
Tidal volume	: 50 to 1500 ml
Frequency	: 1 to 50 breaths/min
Inspiratory Time	: 0.4 to 3 seconds
Plateau time	: 0 to 3 seconds
PEEP	: 0 to 30 cmH ₂ O
Sensitivity	: pressure (1 to 10 cmH ₂ O) Flow (1 to 10 LPM) below PEEP
PCV	: 0 - 40 cmH ₂ O
PSV	: 0 - 30 cmH ₂ O
2PAP	: EPAP 0 to 30 cmH ₂ O, IPAP 0 to 40 cmH ₂ O, Frequency 6 to 30 per min, IPAP time 0.5 to 5 secs.
APRV	: 3 - 24 cmH ₂ O @ 6 to 16 times per minute
Demand flow	: 120 litres / min (max)
Patient Data	: Insp. Tidal volume, Exp. Tidal volume, VT (Spont), PIP, Plateau Pressure, MAP, Rate, FIO ₂ , I / E ratio.
Alarms	: High / low pressure, high / low VT, high / Low FIO ₂ , oxygen / air failure, patient disconnection & Apnea
Indications	: Functional events, Air / O ₂ fail, Faulty O ₂ sensor, Inverse I/E ratio
Power input	: 200 -240 VAC, 50Hz
Battery backup	: 3 hours

Ordering information:

Standard Supply	: Main unit, trolley, UPS, Reusable Breathing Circuit, Support arm, moisture traps and Humidifier.
Optional	: Oil free Air Compressor

ISO 13485 : 2003 & ISO 9001-2008
Certified

