SECOND'S DELAY MAY RESULT IN A DEATH...

Avoid Delay... Save a Precious Life

MEDISYS

CARDIOVENT

Transport Ventilator

Simple Ventilator... Simpler Controls

MEDISYS

CARDIOVENT

Transport Ventilator

Swift and correct handling of a critical situation is the essence of success or failure when a precious life is at stake.

In most cases that require automatic artificial emergency ventilation, the ventilator is being operated primarily by para medical staff. Having an equipment with complicated controls makes his job more difficult and the situation more critical.

MEDISYS CARDIOVENT has been basically designed to prevent such a disaster. Only two simple, user friendly, graduated and calibrated controls of TIDAL VOLUME and BREATHS PER MINUTE obviates the need for prolonged and time consuming adjustments of the controls. Sometimes, this may turn out to be the difference between life and death.

SPECIFICATIONS :

Classification	:	Flow Generator
Mode of Operation	:	Pneumatically Operated Time Cycled Controlled/Assist-Controlled
Source	:	Oxygen/Air at 60 PSI
Graduated Tidal Volume	:	In steps of 50, 200, 300, 400, 500 & 800 cc
Graduated Breaths/Minute	:	In steps of 10,15, 20, 30 & 40 BPM
Oxygen Concentration	:	40% and 100%
Plug-in O_2 Flowmeter	:	Flow Range 1 to 15 LPM
Audio Visual Alarm	:	LIP for Low Inspiratory Pressure, Source Pressure Failure and Patient Disconnection. PIP for High Inspiratory Pressure beyond 40 cm of H_2O
Safety Pressure Relief	:	Adjustable from 0 to 50 cm of H_2O
Battery	:	9 V

DIMENSIONS :

Control Module	:	25 cm X 23 cm X 13 cm
Weight	:	5.5 Kgs
Handle - cum - Stand	:	Provided for easy portability. Also acts as a stand for keeping the ventilator at a slanted angle.

The unit is supplied with the following accessories in a carrying case :-

Ventilator, Breathing Circuit, Plug-in Type Oxygen Flowmeter, Pre-fixed Pressure Oxygen Regulator, High Pressure Tubing with End-fittings and Pipe Line Adaptor.

The Plug-in O_2 Flowmeter operates from the same Ventilator Driving Source.

Warranty 12 months against any manufacturing defect
A totally indigenous product with prompt After-Sales-Service

The Company reserves the right to change/modify the specifications without any notice

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MEDISYS

EXCELSIOR

ANAESTHESIA WORKSTATION
WITH VENTILATOR

ALL

CONTROLS

ARE

WITHIN

YOUR

ARM'S

REACH

JUST SELECT THE CONTROL
AND RELAX

CE

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Succeed with Quality

MEDISYS EXCELSIOR is a High End Anaesthesia Workstation that has an **in-built Electrically Operated Micro-Controller Based Ventilator.**

Special care has been taken to keep it **very simple, sturdy, compact and user-friendly.**

ANAESTHESIA VENTILATOR

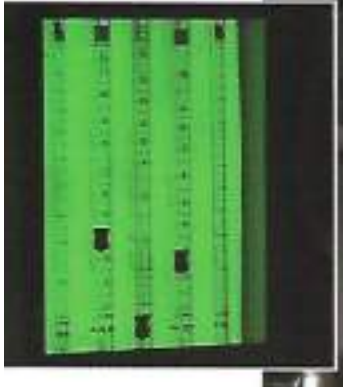
- Micro-Controller Based Electrically Driven
- Bright Display of Parameters
- Display of Airway Pressure in Bar Graph
- Compatible with Circle Absorber or Bain's Circuit
- Automatic Spill Device
- Adjustable Safety Valve
- Inspiratory Hold for better distribution of gas
- Variable 1: E Ratio

SPECIFICATION

Classification	:	Flow Generator Type
Driving Source	:	220 v AC
Mode	:	CMV
Tidal Volume	:	50 to 1200 ml
Frequency	:	6 to 40 bpm
Insp. Time	:	0.4 to 3 Seconds
Insp. Hold	:	0 to 2 Seconds
I / E Ratio	:	1: 1 to 1: 5
Alarms	:	Patient Disconnection, High Insp. Pressure, Low Insp. Pressure
Safety Valve	:	Adjustable : 10 to 50 cm H_2O
Power	:	60 W

STRUCTURE

- Made of Aluminium Extruded Tubes and Channels with Powder Coated Finish
- 2 Drawers with Smooth Sliding Channels
- Sliding Writing Table
- Antistatic Large Castor Wheels, Front Wheels with Brakes
- Dip Stand with Double Hook
- Handle on each side for Easy Maneuverability
- Equipped with Electrical Distribution Box
- Space for mounting 2 Vaporizers



VAPORIZER MANIFOLD

Provision for mounting 2 Temperature and Flow Compensated Vaporizers.

FLOWMETER MANIFOLD

- **5 Tube Flowmeter Set**
- 2 Each **High & Low Range Tube Set** for **O_2 & N_2O**
- 1 **High Range Tube** for **AIR**
- Each Gas **Control Valve** fitted with **Colour and Shape Specific Control knobs**
- Fitted with **Oxygen Ratio Controller** which ensures minimum **25% O_2 Concentration**. If **Oxygen** delivery is altered, **ORC** automatically readjusts proportionate delivery of **N_2O**, thereby maintaining pre-set **Oxygen Concentration**

Gas	Flowmeter	Range
O_2	Double	0 to 1 Litre/min
		1 to 10 Litre/min
N_2O	Double	0 to 1 Litre/min
		1 to 12 Litre/min
AIR	Single	100 to 15000 cc/min

GAS INLET

a) Cylinder Inlet : **4 Forged Brass Pin Indexed Yokes**, 2 each for **O_2 & N_2O** with **Colour Coded Cylinder Pressure Gauges** at eye level.

b) Pipeline Inlet : **Non-interchangeable Pipeline Inlet** for **O_2, N_2O & AIR** with separate **Pipeline Pressure Gauges** on the front at eye level.

Application	Gas	Qty.	Pressure Gauge Range
Cylinder	O_2	2	0 - 250 kg / cm^2
Cylinder	N_2O	2	0 - 250 kg / cm^2
Pipe Line	O_2	1	0 - 7 kg / cm^2
Pipe Line	N_2O	1	0 - 7 kg / cm^2
Pipe Line	AIR	1	0 - 7 kg / cm^2
Vacuum System	VACUUM	1	0 - 760 mm / Hg.

PRESSURE REGULATORS

4 **First Stage Regulators**, 2 each for **O_2 & N_2O**. 2 **Second Stage Regulators** for maintaining **Systems Pressure**, 1 each for **O_2 & N_2O**.

AIR/N_2O INTERLOCK

This interlock system eliminates the possibility of selecting **AIR** with **N_2O**. Oxygen is allowed to flow with **N_2O** or **AIR**.

NITROLOCK WITH ALARM

Oxygen Failure Alarm is activated when **O_2** delivery falls below **1Lpm**. It also locks the flow of **N_2O**. Alarm will be on till the fault is rectified.

ALARM 'ON-OFF' SWITCH

It is provided to keep the Audio Visual Alarm off.

NON RETURN VALVE WITH SAFETY RELEASE

Protects Reverse Flow from Patient Circuit towards Vaporizers. Also acts as a Safety feature to blow-off excess pressure built-up in the Patient Circuit.

OXYGEN FLUSH

Monostable Type **Guarded Push Button** fitted for supply of fresh **Oxygen** to the Patient Circuit.

VACUUM SYSTEM

Consists of Vacuum 'ON-OFF' Switch, Vacuum Control Valve with Pressure Gauge & Vacuum Collection Bottle. The System operates on **AIR**.

CIRCLE ABSORBER

1. Ideally suited for **Low Flow Anaesthesia System**.
2. **'O' Ring fitted taper joints** ensure **100% leak proof** system and **easy maneuverability**.
3. **Cannisters** can be taken out for refilling and **push-fitted** again to the circuit set-up **very easily**.
4. Supplied with 2 **Cannisters**, **APL Valve** & **Patient Circuit**.
5. Visual Unidirectional **flow indicator** at **Inspiratory** & **Expiratory Valve**.
6. Supplied with BAG - VENT Switch for easy changeover between **Manual** & **Automatic** modes.

Shelf	Height Cm.	Depth Cm.	Width Cm.	Maximum Load (Kg.)
TOP	149	35	65	22
TABLE	92	31	53	11

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MEDISYS®

MEDIVENT GRAND

Designed with the concepts of modern technology, the workstation is quite distinct from the conventional systems. Its advanced features ensure patient's safety and offer comfort to the operator.

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MEDISYS®

MEDIVENT GRAND

The anaesthesia delivery system has the **capability to operate at a very low Fresh Gas Flow**. With its high end features and advanced ventilation capabilities, it can easily meet the challenging conditions in the operating room. Ventilating an obese or a patient in prone position is no longer a problem.

The **Hypoxic Guard and OFPD** have been provided as standard safety protocol. While the hypoxic guard ensures FGF to contain at least 25% oxygen, the protection against oxygen failure (OFPD) activates a device to cut off the flow of N_2O and warn, with a visual flash and an audio alarm.

While the **FGF Decoupling** and the **Circuit Compliance Compensation** try to make for the net tidal volume, the system of **breath to breath correction** ensures the delivery unaffected with the change in lung characteristics.

The **Ascending Bellows** in the ventilator **provides visual feedback** for patient's response, leakages or low FGF.

At times, the **Pressure Control Mode** is preferred to **Volume Control to avoid** the likelihood of **High Peak Pressure**. The **PRVC Mode**, in such cases, delivers the target volume keeping the pressure to the minimum. The operator is relieved and is no longer required to adjust the pressure manually.

FEATURES

- Operates at very low fresh gas flow of 500 ml per minute.
- Provides for quick changeover for open / closed circuit, Auto / Manual and N_2O / Air operation.
- Oxygen ratio controller (ORC) maintains the flow of N_2O compared to the flow of oxygen.
- Provides for hypoxic guard and OFPD as standard safety protocol.
- 8.4 inches colour TFT screen for display of parameters and the PT curve.
- Provides for full range of ventilation modes.
- Delivers tidal volume after compensating for the loss due to compression of gas in the circuit.
- Fresh Gas Flow Decoupling (FGD) makes Tidal volume unaffected for any change in FGF.
- Tidal volume is delivered regardless of changes in lung characteristics.
- Built in oxygen analyzer for display the FiO_2
- Provides for PEEP, pressure support and apnea backup ventilation.

SPECIFICATIONS

Dimensions (H x W x D)	:	1460 x 580 x 750 mm
Flow control	:	0 to 10 L/min for oxygen, 0 to 12 L/min for N_2O And 0 to 15 L/min for air
Gas inlet	:	two pin index yokes for O_2 and N_2O; and four connectors for central pipeline gas
Backbar	:	Selectatec type for two vaporizers with interlock safety mechanism
Emergency O_2 Flush	:	35 to 45 Litres / min
Display	:	8.4 inch colour TFT screen
Ventilation modes	:	CMV (VC), CMV (PC), PRVC, SIMV (VC), SIMV (PC) and SPONT
Tidal volume	:	20 to 1500 ml
Respiration rate	:	1 to 50 breaths/min
Inspiratory time	:	0.3 to 3 seconds
Inspiratory Hold	:	0 to 2 seconds
Electronic PEEP	:	3 to 30 cmH_2O
PCV	:	3 to 40 cmH_2O
PSV	:	0 to 30 cmH_2O above PEEP
Sensitivity	:	0.5 to 8 cmH_2O
Monitored data	:	Tidal volume, Minute volume, P_{peak}, P_{plat}, P_{mean} and FIO_2
Alarms	:	Low /High V_t, Low / High peak pressure, Low / High FIO_2
Electrical power	:	220 VAC, 55 Watt

Warranty

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FOR RELIABLE RESPIRATORY SUPPORT

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MEDISYS®

MEDIVENT EXCEL

Electronic Anesthesia Ventilator

MEDIVENT EXCEL

The Medisys MEDIVENT EXCEL is a micro controller based electrically driven anesthesia ventilator. It provides for Control, Assist and SIMV modes. It is simple to operate and is suitable for closed, semi-closed or open anesthesia system. It simply runs on electricity and requires no driving gas.

FEATURES

- Micro-controller based
- No need of driving gas
- Apnea backup ventilation
- Port for Oxygen enrichment
- Adjustable safety valve
- Comprehensive alarms
- Low power consumption
- Low maintenance

SPECIFICATIONS

Classification	Flow generator type
Modes	CMV, CMV + Assist, SIMV
Tidal Volume	50 to 1200 ml
Frequency	6 to 40 BPM (1 to 40 BPM in SIMV)
Inspiratory Time	0.4 to 3 seconds
I : E ratio	1 : 1 to 1 : 5
Inspiratory Hold	0 to 2 seconds
Apnea Backup	Every 4 seconds
Alarms	Patient disconnection, high/low pressure
Safety pressure	Adjustable: 10 to 60 cm H_2O
Power consumption	80 W
Dimensions	410 X 230 X 280 mm

Warranty

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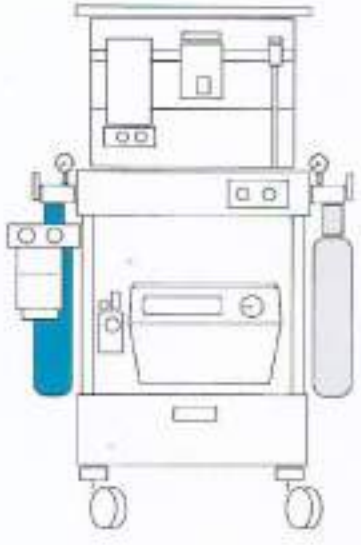

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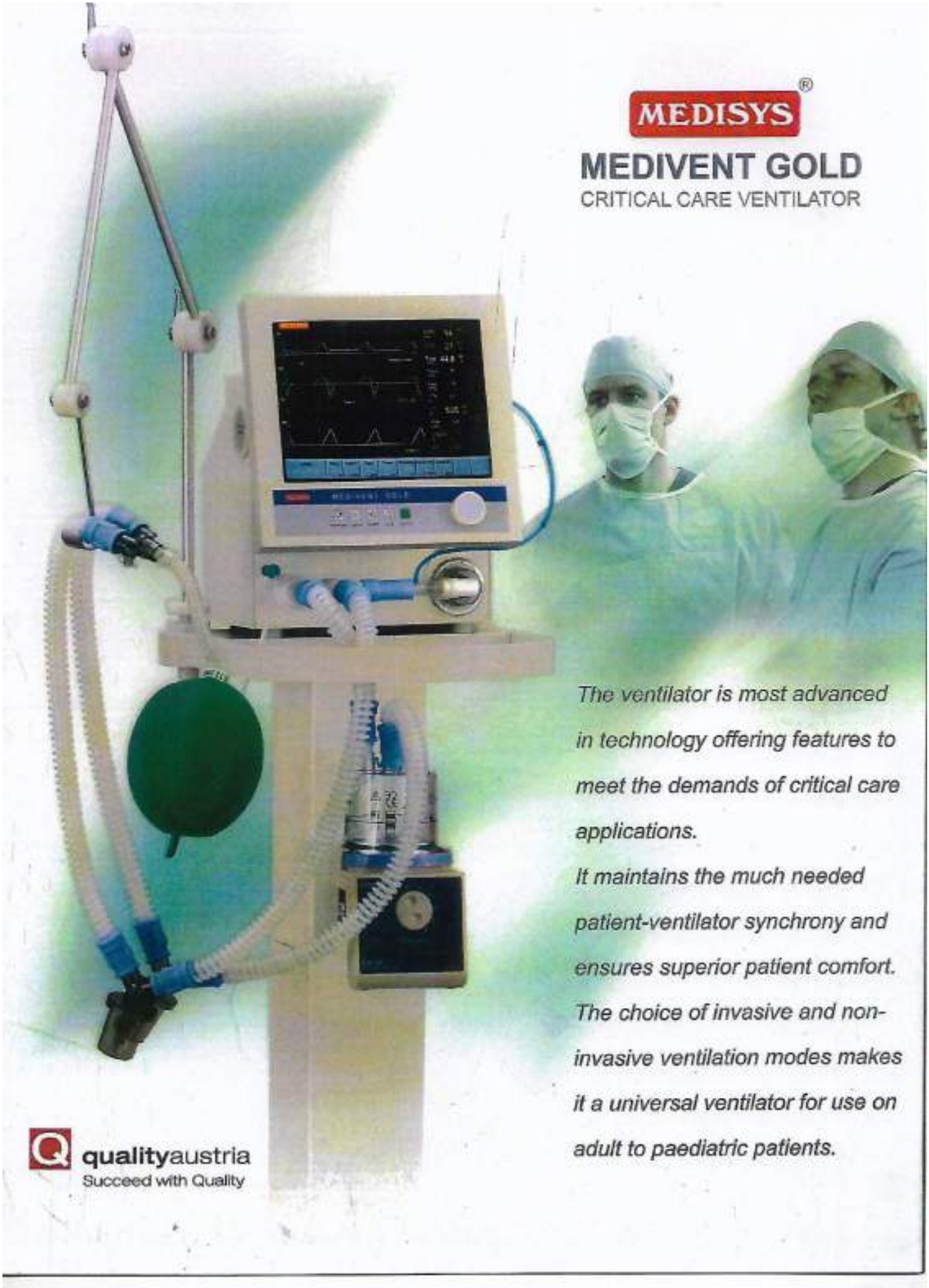

MEDISYS®

MEDIVENT GOLD

CRITICAL CARE 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.

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MEDISYS®

MEDIVENT GOLD

CRITICAL CARE 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.

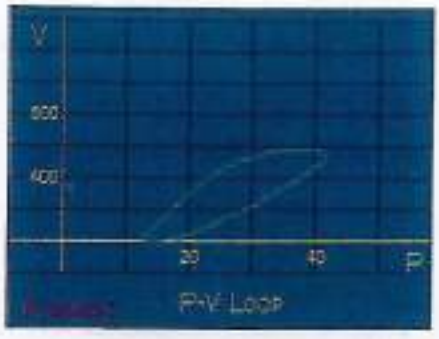
Flexibility

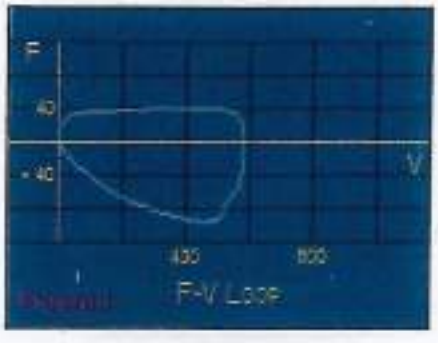
The ventilator runs on the dual supply of compressed air and oxygen. However, if failure occurs in either of the gases, the ventilator runs on the optional supply available.

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.

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.

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 O_2 cell calibration
- NIV facility
- Built in Nebulization
- Alarm data log
- Servo controlled O_2 blender
- Breath to breath correction
- Apnea backup
- Emergency 100% oxygen
- Battery backup

Specifications:

Gas supply	:	Air and Oxygen at 3 to 4 kg/cm²
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_2O
Sensitivity	:	pressure (1 to 10 cmH_2O) Flow (1 to 10 LPM) below PEEP
PCV	:	0 - 40 cmH_2O
PSV	:	0 - 30 cmH_2O
2PAP	:	EPAP 0 to 30 cmH_2O, IPAP 0 to 40 cmH_2O, Frequency 6 to 30 per min, IPAP time 0.5 to 5 secs.
APRV	:	3 - 24 cmH_2O @ 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

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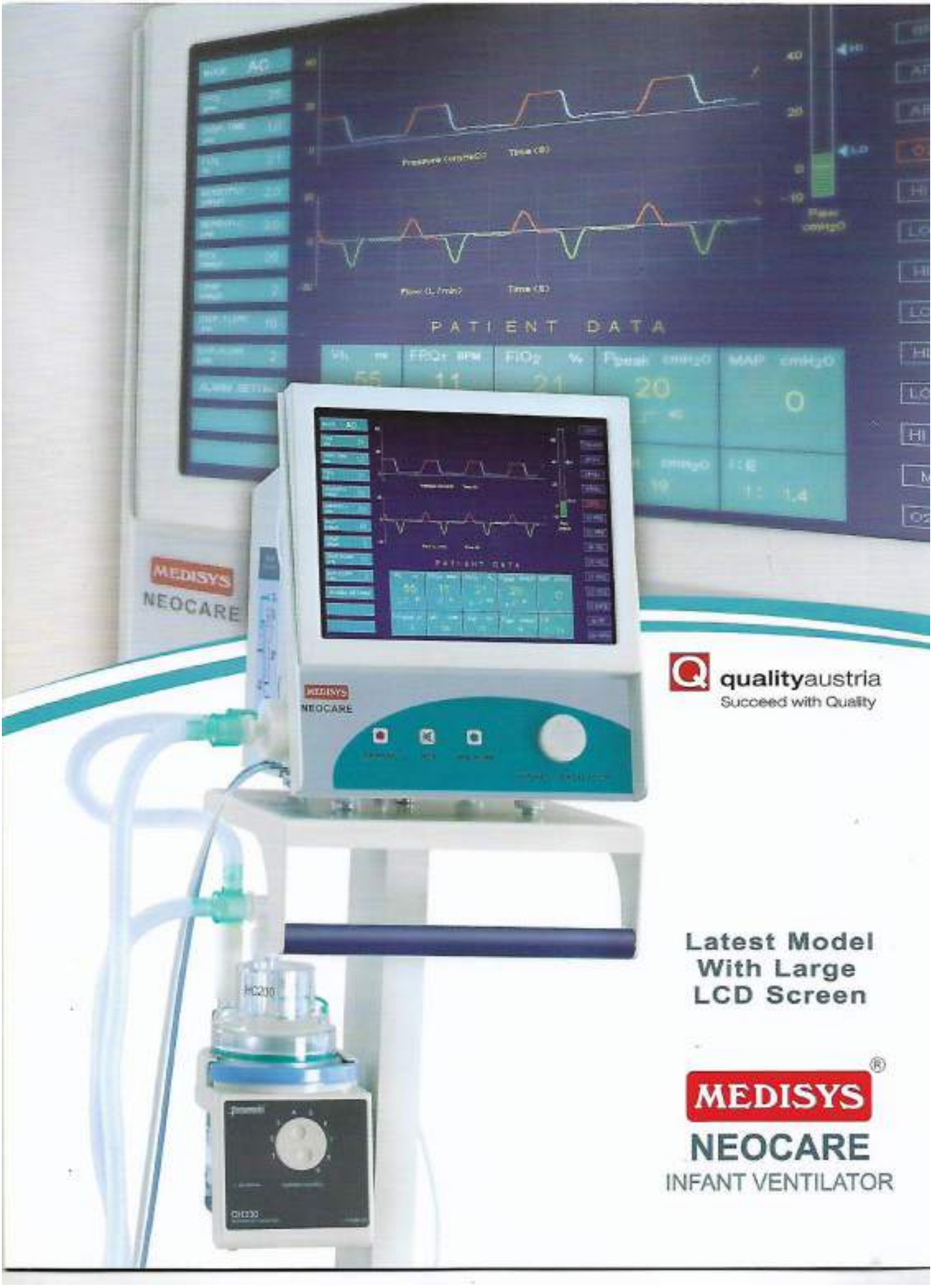
PATIENT DATA
MEDISYS
NEOCARE
qualityaustria
Succeed with Quality
Latest Model
With Large
LCD Screen
MEDISYS®
NEOCARE
INFANT VENTILATOR

MEDISYS®

NEOCARE

INFANT VENTILATOR

The Medisys NEOCARE is a micro-controller based ventilator designed for patients ranging from neonates to pediatrics. While ventilating such patients, safety features are of prime consideration. The ventilator incorporates the features of both pressure and volume limiting to reduce the possibilities of **barotrauma** and **volume trauma** that may occur even at a low pressure. The inspiratory phase is terminated as the **pressure** or the **tidal volume** tends to exceed the set limit.

The ventilator adopts the widely accepted **technique of continuous flow with time cycling** for ventilating new-born and pediatric patients. It provides for modes like CMV, ASSIST, SIMV and SPONTANEOUS with CPAP facility. Apnea back up ventilation is available in SIMV and Spontaneous modes.

All set and monitored data are displayed on a large 12.1 inch LCD screen. The monitored patient data includes **expired tidal volume, minute volume and delivered FiO_2.** It also provides for **simultaneous display of Pressure and Flow Curve.**

The oxygen blender is **servo controlled** with closed loop feed back system. FiO_2 can be set from 21% to 100%. For emergency 100% oxygen, set FiO_2 can be bypassed at any instant by pressing the **100% O_2 button.** It is reset by pressing the button again. The selection of gas flow remains unaffected even if there is a failure of either air or oxygen, as the unit automatically switches to the available gas supply.

Utmost safety is of prime consideration

A fall in pressure due to patient effort is recognized for pressure triggering. However, the presence of continuous flow tends to neutralize this pressure drop. So more effort is needed to trigger the ventilator. This may be exhaustive and result in increased WOB. The Neocare adopts triggering by flow to make it more effective. The flow sensor detects a flow caused by the patient's effort to trigger the ventilator. The flow is detected at the proximal of the patient, thereby avoiding any false triggering due to leakage in the two limbs of the breathing circuit. Moreover, it makes the triggering PEEP compensated.

FEATURES:

- Micro controller based
- Continuous flow with time cycling mechanism
- Both pressure and volume limiting
- Pressure & Flow triggering
- Apnea backup ventilation
- Servo controlled oxygen blender
- Emergency 100% O_2
- Patient Data and Alarm Log
- Simultaneous display of pressure and flow curve
- Calibrated pressure bar graph
- Automatic switch over to available gas input
- Automatic Calibration of Oxygen Sensor

TECHNICAL SPECIFICATIONS

Recommended Application	Neonatal, Infant and Pediatric Patients
Flow	2 – 25 Litre per minute
Tidal Volume	6 to 300 ml
Modes of Operation	A/C, SIMV, Spontaneous, CPAP with Backup Ventilation and Standby
Mandatory Breaths	Pressure Controlled
Inspiratory Time	0.2 to 3.0 seconds
I : E ratio	1 : 1 to 1 : 10 (A/C) 1 : 1 to 1 : 60 (SIMV) Inverse 1 : 1 to 4 : 1
Frequency	1 to 150 breaths per minute
Triggering	Flow Triggering (1-10 lpm), Pressure Triggering (0.5 - 8 cmH_2O)
Expiratory Pressure	0 to 20 cmH_2O
Inspiratory Pressure limit	5 to 50 cmH_2O
Alarms	High / Low Peak Pressure, High / Low Tidal Volume, High / Low FiO_2 Loss of Inlet Gas Apnea Electrical Power Failure
Alarm Mute	30 seconds
Safety Pressure Relief	15 to 50 cmH_2O
Display	12.1 inches Colour LCD
Patient Data	Frequency, Peak Insp. Pressure, MAP, Plateau Pressure Expired Tidal Volume, Insp. Tidal Volume Spontaneous Expired Volume, Minute Volume and FiO_2, I: E ratio
Ventilation Curves	Pressure-Time and Flow-Time
Dimensions (ventilator module)	28 cm (W) x 32 cm (D) x 32 cm (H)
Weight (ventilator module)	8.2 kg
Power Requirements	220 to 240 V AC, 50 Hz
Accessories	**Standard :** Proximal Flow Sensor, Breathing Circuit, Heated Humidifier, Oxygen Sensor, Oil Less Compressor

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