



KIRAN
LifeVent 1000 C
ICU Ventilator

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Fully Featured Ventilator - Multi Purpose, Compact, Portability

Kiran LifeVent 1000 C is a Volume & Pressure Controlled Ventilator with 12 different modes of Ventilation to assist the patient as per the need. The incorporation of Flow sensor in Inspiratory limb helps in indicating the exact delivered Tidal Volume. Digital Display of Peak Flow is provided. Auto mode facility is provided in ACMV Mode.

"Kiran LifeVent 1000 C" is a Volume/Pressure controlled, Time cycled, Continuous Flow Ventilator that is intended for Adult & Pediatric use.

A Seven inches Touch screen is provided that indicates various settings, alarms & other related parameters.

It indicates the ongoing mode of ventilation, The Pressure vs Time, Volume vs Time, Flow vs Time & Pressure vs Volume graphs apart from displaying the Inspiration Time, Respiratory Rate, Delivered Oxygen Percentage, Set & Delivered Tidal Volume, Delivered & set Pressure, PEEP & various other important parameters that are of utmost importance to the clinician.

Special Functions:

- Selections of Bias Flow. Flow range - Adult & Paediatric.
- Help Line facility that guides the user regarding various settings in various diseases.
- SIMV Plus Pressure support

CPAP plus Pressure support. This specialty mode puts the ventilator in the category of the most updated ventilators & is a boon for the patients with "FLAIL" Chest.

Auto Mode provided in this Ventilator will be of utmost help to the clinician & attending staff which ensures safe Ventilation of the Patient.

Technical Specifications

Technical Specifications of Ventilators:

Power	230 Volts AC +/- 10% 50 Hz
Fio2	21 to 100% Selectable
Respiratory Rate	4 to 60 BPM
Inspiratory Time	.3 to 4 Seconds
Inverse Ratio Ventilation	Yes provided. Range 4:1
Battery Back up	2 Hours
Flow Sensors	Yes provided.
PEEP	0 to 30 CmH2O
Peak Inspiratory Pressure	2 to 60 CmH2O
Trigger Level	Zero to Minus 20 CmH2O
Input Gas Pressure, Air & Oxygen	60 PSIG/4 Bar
Patient efforts in Assist Mode	Displayed on Digital Display
Volume Range	50 ml to 2500 ml

Volume Controlled Modes

- A. Controlled mandatory Ventilation (CMV)
- B. C M V with SIGH
- C. Assist Controlled Mandatory Ventilation
- D. S I M V plus Pressure Support
- E. Pressure Support Ventilation (P S)
- F. CPAP with Pressure Support
- G. PEEP
- H. Pressure Regulated Volume Control (PRVC)

Volume Range 50 to 2500 ml
The time of 1st & 100th breathe will be 50% more than the set I.T. in SIGH Mode.
Pressure Triggered/Flow Triggered
SIMV & Mandatory period is selectable from 60 to 75% of the respiratory cycle time.
Range 0 to 40 CmH2O
Range 0 to 40 CmH2O
2 to 60 CmH2O
Automatic Setting of Pressure to 40 CmH2O. User can adjust the Max pressure limit.

Pressure Controlled Ventilation Modes

- A. Controlled mandatory Ventilation (CMV)
- B. C M V with SIGH
- C. Assist Controlled Mandatory Ventilation
- D. S I M V plus Pressure Support
- E. Pressure Support Ventilation (P S)
- F. CPAP with Pressure Support
- G. PEEP

Range 2 to 45 CmH2O
1.5 time of set IT, after each 100 breathe in SIGH Mode.
Pressure Triggered/Flow Triggered.
SIMV & Mandatory breaths, selectable
Range 0 to 40 CmH2O
Range 0 to 40 CmH2O
2 to 60 Cm H2O

Graphical representation provided for following:

- A. Volume vs Time
- B. Pressure vs Time
- C. Volume vs Pressure
- D. Flow vs ime

Inbuilt Air Oxygen Blender

Accuracy +/- 3% Selectable by Virtue of Touch Screen

Digital display for inhaled oxygen provided

Yes, provided on the screen

Display provided for

Set Tidal Volume
Delivered Tidal Volume
Volume not Delivered
Expired Tidal Volume/ Minute Ventilation
Positive End Expiratory Pressure (PEEP)
Set Inspiration Time
Set Expiration Time

Displayed on screen 4 digits
Displayed on screen 4 digits
Audio Visual
Displayed on screen
Displayed on screen 2 digits
Displayed on screen 2 digits.
Displayed on screen 2 digits

CERTIFIED

I:E Ratio	Displayed on screen 3 digits
Set Trigger Level	Displayed on screen 3 digits
Breaths Per Minute/R R	Displayed on screen 2 digits.
Peak Inspiratory Pressure	Yes, Displayed on the screen
SIMV %	Displayed on screen 2 digits
Patient Efforts	Displayed on screen 2 digits
Different Diseases & their settings in HELP Mode	Alpha Numerical
Different Formula's in Formula Mode	Alpha Numerical
MAP (Mean Airway Pressure).	Displayed on screen 2 digits
PEEP	Displayed on screen 2 digits

Alarms & Warnings

Volume not Delivered	Audio Visual
Patient in Apnoea	Audio Visual
Air Supply Failure	Audio Visual
Leakage in Patient Circuit	Audio Visual
Low Inspiration Pressure	Audio Visual
High Inspiration Pressure	Audio Visual
Oxygen Supply Failure	Audio Visual

Special Functions:

Provision & selection of Bias Flow It can be set to Adult or Paediatric mode	Paediatric & Adult
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Special Formula Key that indicates

To indicate various formulas like
calculation of MAP, desired PaCO₂ etc

Help key: To access information regarding setting
parameters in specific diseases. Useful feature in
Rural areas
Works on very low pressure, hence saves lot of Oxygen

Lock: A separate lock key is provided to ensure the ventilator parameters are not changed accidentally.

*Please note: Product specifications are subject to change without prior notice owing to product modifications, improvements / up-gradation.

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