



# KIRAN<sup>®</sup> LifeVent 1000 C ICU Ventilator

# Kiran LifeVent 1000 C

# 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 off 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 Fio2 Respiratory Rate Inspiratory Time Inverse Ratio Ventilation Battery Back up Flow Sensors PEEP Peak Inspiratory Pressure Trigger Level Input Gas Pressure, Air & Oxygen Patient efforts in Assist Mode Volume Range 230 Volts AC +/- 10% 50 Hz 21 to 100% Selectable 4 to 60 BPM .3 to 4 Seconds Yes provided. Range 4:1 2 Hours Yes provided. 0 to 30 CmH20 2 to 60 CmH20 Zero to Minus 20 CmH20 60 PSIG/4 Bar Displayed on Digital Display 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 (PS)
- F. CPAP with Pressure Support
- G. PEEP
- H. Pressure Regulated Volume Control (PRVC)

Volume Range 50 to 2500 ml The time of 1<sup>st</sup> & 100<sup>th</sup> 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 CmH20 Range 0 to 40 CmH20 2 to 60 CmH20 Automatic Setting of Pressure to 40 CmH20. 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 (PS)

F. CPAP with Pressure Support

G. PEEP

# 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

Digital display for inhaled oxygen provided

## 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 Accuracy +/- 3% Selectable by Virtue of Touch Screen Yes, provided on the screen

Range 2 to 45 CmH20

Range 0 to 40 CmH20

Range 0 to 40 CmH20

2 to 60 Cm H20

selectable

1.5 time of set IT, after each 100 breathe in SIGH Mode.

SIMV & Mandatory breaths,

Pressure Triggered/Flow Triggered.

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

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

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

# Alarms & Warnings

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

### Special Functions:

Provision & selection of Bias Flow It can be set to Adult or Paediatric mode Paediatric & Adult

Audio Visual

Audio Visual Audio Visual

Audio Visual

Audio Visual

Audio Visual Audio Visual

## 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 accidently.

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