PLV®·102b
PORTABLE VOLUME VENTILATOR

When you need a portable volume ventilator capable of ventilating a wide range of patients, you need the PLV-102b. The PLV-102b uses a proven microprocessor-controlled, piston-driven ventilator platform to deliver volume ventilation in a range of settings. Its features address the needs of many patients who require volume ventilation and portability or transport in the sub-acute care, nursing home or home setting.

FEATURES

Portable • The PLV-102b is well suited for transport and portable applications due to its small size and light weight. The ventilator is capable of operating from any of three power sources: 120 volts AC, an internal 12 volt DC battery and an external 12 volt DC battery, all of which are automatically switched by the PLV-102b.

Controls • The PLV-102b provides three modes: Control and Control-Assist, each of which can be used with optional Sigh, and the SIMV mode. The sensitivity of the PLV-102b is adjustable from −6 to +18 cm H₂O, which allows for use with PEEP up to 20 cm H₂O. The sensitivity is automatically and continuously corrected for barometric pressure changes.

Alarms and Displays • Alarms are provided for Low Pressure, High Pressure, Apnea, Inverse I:E ratio, Increase Inspiratory Flow and Expiratory Flow. Large, backlit LCDs display Tidal Volume, Respiratory Rate, I:E Ratio and Inspiratory Flow Rate.
FRONT PANEL CONTROLS

Mode Selection:
- CONTROL
- CONTROL + SIGH
- ASSIST/CONTROL
- ASSIST/CONTROL + SIGH
- SIMV

Tidal Volume:
- 0.05 to 0.20 +/- 0.02 liters
- 0.20 to 3.00 liters +/- 10%

Sigh Volume:
- 150% of Set Tidal Volume

Sigh Frequency:
- 1 Sigh Every 100 Tidal Breaths

Breath Rate:
- 2 to 35 BPM +/- 0.5
- 35 to 40 BPM +/- 2

Inspiratory Flow Rate:
- 10 to 120 LPM +/- 10%

Battery Test Switch:
- Test Internal/External Battery

Main Power Switch:
- On, Off/Recharge

DC Circuit Breaker:
- Push/Pull Actuation

AC Circuit Breaker:
- Push/Pull Actuation

Airway Pressure Limit:
- 5 to 100 cm H₂O +/- 5
- +18 cm H₂O +/- 1
- to at least -6 cm H₂O

Sensitivity:
- 41 to 50 cm H₂O +/- 5
- 20 to 40 cm H₂O +/- 2

Low Pressure Alarm:
- 2 to 40 cm H₂O +/- 2
- 41 to 60 cm H₂O +/- 5

Manual Sigh:
- Push to Activate One Breath

30 Second Alarm Silence:
- Push to Activate

POWER SOURCES

- 120 VAC 50/60 Hz
- 12 VDC Internal Battery
- 12 VDC External Battery

PHYSICAL DIMENSIONS

- Overall Dimensions: 9" H x 12.25" W x 12.5" D
  (22.9 cm x 31.1 cm x 31.1 cm)
- Weight: 28.2 lb. (12.8 kg)

ALARMS

- Low Pressure: Visual and Continuous Audible
- Apnea: Visual and Continuous Audible
- Inverse I:E Ratio: Visual Warning
- Increase Inspiratory Flow: Visual and Continuous Audible
- Low Internal Battery: Continuous Audible
- Low External Battery: Continuous Audible
- Reverse Battery Connection: Continuous Audible
- Power Failure: Continuous Audible
- Unit Malfunction: Intermittent Audible
- Power Source Change: Continuous Audible

ORDERING INFORMATION

Description
- PLV-102b Ventilator

Part Number
- 1003111

Global Headquarters:
- Pittsburgh, Pennsylvania USA • 412-731-2100
- Customer Service: 1-800-345-6443
- Respironics Europe: +33-(0)1-55-60-9-80
- Respironics Asia Pacific: +852-234-32-18

CAUTION: U.S. federal law restricts this device to sale by or on the order of a physician.

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