



The **Philips Respironics PLV 102b** is a transport volume ventilator. The PLV 102b is based on a microprocessor-controlled system that has a Piston-driven ventilation platform. It is a versatile ventilation system and can be used on a wide range of patients from pediatrics to adults. The Philips Respironics PLV 102b ventilator offers 3 modes of ventilation for patients; controlled, Assisted Control, and SIMV modes, and can be used in settings liken sub-acute care, nursing homes, or in a home setting.

Features

- Control and Control-Assist Modes with optional Sigh and SIMV mode.
- Six Alarm Codes assist in troubleshooting.
- Adjustable from -6 to +18 cm H₂O, which allows for use of PEEP up to 20 cm H₂O.
- Automatic, Continuous Sensitivity Corrections for barometric pressures changes.
- Multiple Power Sources include 120 volts AC, an internal 12 volt DC battery and an external 12 volt DC battery.



Specifications

Dimensions

Height: 9 inches (22.9 cm)
Width: 12.25 inches (31.1 cm)
Depth: 12.25 (31.1 cm)
Weight: 28.9 lbs (13.1 kg)

Power

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

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%
Sign Volume: 150% of Set Tidal Volume
Sign Frequency: 1 Sign Breath every 100 Tidal
Breath Rate: 2 to 35 BPM ± 0.5; 36 to 40 BPM ± 2
Inspiratory Flow Rate (Peak flow rate during inspiratory time): 10 to 120 LPM
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
Sensitivity: +18 cm H₂O ± 1 to at least -6 cm H₂O
Low Pressure Alarm: 2 to 40 cm H₂O ± 2; 41 to 50 cm H₂O ± 5
Manual Sigh: Push to Activate One Breath
Oxygen Percent (See Operators Manual for Oxygen Delivery Limitations): 21% to 90% ± 6%
Oxygen Sensor - SIMV Operation (See Operators Manual for Oxygen Delivery Limitations): 21% to 90% ± 10%
30 Second Alarm Silence: Push to Activate

Alarms

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