



The **Vyaire LTV 1100** is a versatile portable ventilator that can be customized for individual patients. The ventilator can be adjusted to fit the respiratory needs of infants to adults. The Vyaire LTV 1100 runs off of Turbine technology which means there is no need for compressed air, making transporting the ventilator much easier. The Vyaire offers both non-invasive and invasive means of ventilation, with pressure support, volume control, and spontaneous breath types. The Vyaire LTV1100 has SprintPack that carries a lithium battery power system for the ventilator and can provide up to 5 hours of battery power when fully charged.

## Features

- A wide range of ventilation therapies for patients—The LTV 1100 ventilator offers both invasive and noninvasive modes of ventilation in Pressure Support, Volume Control and Spontaneous breath types, delivered with flow triggering. An O<sub>2</sub> source can be used to bleed in oxygen. The addition of SIMV/CPAP and apnea backup combine to create powerful portable ventilation technology.
- Simple user operation—The easy-to-read LED display panel and front panel buttons combine to provide quick and convenient user operation.
- Multiple power sources—A wide variety of power sources are available for the LTV 1100 ventilator. The internal battery offers an extra layer of power protection to ensure security and confidence for your patient and the caregiver. The LTV 1100 ventilator can be connected directly to a wall outlet using the LTV AC adapter, to an automobile power adapter or to external battery options, including our SprintPack Battery Lithium-Ion Power System.



# Specifications

## Dimensions

W 10.5" (2cm) x H 3.25" (8.4cm) x D 13.5" (38cm)  
Weight: 14.5lbs (65 kg)

## Controls

Power On/Standby  
Ventilation modes Control, Assist/Control, SIMV/CPAP and NPPV  
Breath types VC, PS and Spontaneous  
Breath rate 0–80 BPM  
Tidal volume 50–2,000 mL  
Inspiratory time 0.3–9.9 sec  
PS/spontaneous flow 160 LPM  
Pressure support 1–60 cmH<sub>2</sub>O  
O (PEEP compensated)  
Flow sensitivity Off, 1–9 LPM  
PEEP/CPAP 0–20 cmH<sub>2</sub>O  
Manual breath 1 x current settings  
Control lock Easy or hard unlock

## Environmental Specifications

Operating temperature 5–40°C (40–104°F)  
Storage temperature -20 to 60°C (-4 to 140°F)  
Operating humidity 15–95% relative  
Storage humidity 10–95% relative  
Shock compliance IEC 68-2-27, MIL-STD-810E  
Vibration compliance IEC 68-2-34 and 68-2-6, MIL-STD-810E

## Variable Alarms

Apnea interval 10–60 sec  
High pressure limit 5–100 cmH<sub>2</sub>O  
Low peak pressure Off, 1–60 cmH<sub>2</sub>O  
Low minute volume Off, 0.1–99 liters  
High PEEP Off, 3–20 cmH<sub>2</sub>O above set PEEP  
Low PEEP Off, -3 to -20 cmH<sub>2</sub>O below set PEEP  
High rate Off, 5–80 BPM  
Alarm volume 60–85 dBA

## Monitors and indicators

Peak inspiratory pressure 0–120 cmH<sub>2</sub>O  
Mean airway pressure 0–99 cmH<sub>2</sub>O  
PEEP 0–99 cmH<sub>2</sub>O  
Breath rate 0–250 BPM  
Airway pressure display -10 to 108 cmH<sub>2</sub>O  
Exhaled tidal volume 0–4,000 mL  
Exhaled minute volume 0–99.9 liters  
I:E ratio 99:1 to 1:99  
Calculated peak flow 10–100 LPM

## Specifications continued

### Extended features

Spontaneous breathing trial (SBT)  
Bias flow off (pressure trigger)  
Pressure support variable rise time  
Pressure support variable flow termination  
Pressure support variable time termination  
Flow termination 10–40% peak flow  
Leak compensation  
Sigh  
Apnea backup ventilation delivers 150% every 99 breaths or 7 minutes

### Pneumatic specifications

Low pressure O<sub>2</sub> source < 80 LPM, < 10 PSIG  
External power Green and amber LEDs  
Battery charge status Green, amber and red LEDs  
Battery level Green, amber and red LEDs

### Fixed alarms

Disconnect/Sense  
External power, low and lost  
Low oxygen inlet pressure  
Internal battery, low and empty  
Ventilator inoperative

### Power specifications

Ventilator input 11–15 VDC  
AC adapter 100–250 VAC, 50–60 Hz