

## Tailor ventilation to each patient's needs

with available pressure control, pressure support, volume control, adjustable flow triggering, NPPV and apnea back-up mode. The LTV 1000 is diagnostic-ready with AutoPeep and Static Compliance features, and is capable of utilizing the LTM Graphics Monitor for full-color, user selectable ventilator wave form displays and diagnostics.



### ► A Quick Look

#### Ease of Use

An intuitive interface makes the LTV 1000 easy to understand and operate. The unit features extensive patient monitoring capabilities and a comprehensive alarms package for optimum patient care. And with a footprint and size at a fraction of comparably equipped ventilators (13.4 lbs), the LTV 1000 allows for greater patient mobility.

#### Patient Comfort

Designed to provide optimum patient comfort and care, the LTV 1000 features:

- Variable rise time
- Variable sensitivity flow trigger
- Variable flow termination
- Variable time termination
- Leak compensation
- NPPV mode
- High pressure alarm delay

#### Internal Oxygen Blending

The LTV 1000 features an internal oxygen blending system for control of FIO<sub>2</sub>, whether connected to a high or low pressure O<sub>2</sub> source. Units with version 5.0 software also have new O<sub>2</sub> Flush, O<sub>2</sub> Cylinder Duration and Automatic O<sub>2</sub> Switchover features for improved patient care.

#### Versatile Power Options

For increased patient mobility and ease of transport, the LTV can be used with a variety of power sources:

- AC power
- LTV Transport Battery System
- LTV universal power supply
- 3-hour external battery
- 9-hour external battery
- Automobile lighter adapter

# Pulmonetic LTV-1000

## Respiratory Ventilator

Equipment for the way *you* operate.

### Product Specifications

#### Physical Specifications

		With Boot
Weight	13.4 lbs. (6.1 kg)	14.45 lbs (6.5 kg)
Height	3 inches (8 cm)	3.25 inches (8.4 cm)
Width	10 inches (25 cm)	10.5 inches (27 cm)
Depth	12 inches (30 cm)	13.5 inches (38 cm)

#### Controls

Power	On/Standby
Ventilation Modes	Control, Assist/Control, SIMV, CPAP, NPPV
Breath Types	Volume Control, Pressure Control, Pressure Support, Spontaneous
Breath Rate	0 - 80 breaths per minute
Tidal Volume	50 - 2000 ml
Inspiration Time	0.3 - 9.9 seconds (100 lpm)
PC/PS/Spontaneous Flow	160 lpm
Pressure Control	1 - 99 cmH <sub>2</sub> O
Pressure Support	Off, 1 - 60 cmH <sub>2</sub> O
Sensitivity	Off, 1 - 9 lpm
% O <sub>2</sub>	21% - 100%
Low Pressure O <sub>2</sub> Source	On/Off
Bias Flow	10 lpm during exhalation
PEEP/CPAP	0 - 20 cmH <sub>2</sub> O
Control Lock	Easy or hard unlock methods
Insp/Exp Hold	6 seconds maximum
Manual Breath	1 x current settings
O2 Flush	1 - 3 minutes

#### Variable Alarms

Apnea Interval	10 - 60 seconds
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
Alarm Volume	60 - 85 dBA at 1 meter
Alarm Silence/Reset	60 seconds
Ventilator Inoperative	Red LED, audible alarm
High PEEP	Off, 3 - 40 cmH <sub>2</sub> O
High Rate	Off, 5 - 80 cmH <sub>2</sub> O



Available with rolling stand and graphic display

(sold separately)

#### Fixed Alarms

Disconnect / Sense Line  
Low & Lost External Power  
Low & Empty Internal Battery  
High & Low Oxygen Inlet Pressure  
Dual Tones Patient Assist Alarm

#### 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
Total Breath Rate	0 - 250 bpm
Airway Pressure Display	-10 - 108 cmH <sub>2</sub> O
Exhaled Tidal Volume	0 - 4000 ml
Exhaled Minute Volume	0 - 99.9 liters
IE Ratio: 99	1 - 1:99
Calculated Peak Flow	10 - 100 lpm
AutoPEEP	0 - 100 cmH <sub>2</sub> O
Static Compliance	1.999 ml/cmH <sub>2</sub> O
Patient Effort	Green LED

#### Power Indicators

External Power	Green, Amber LEDs
Charge Status	Green, Amber, Red LEDs
Battery Level	Green, Amber, Red LEDs

#### Optional Accessories

LTM Graphics Monitor Package - P/N 11000  
Universal Power Supply - P/N 14546-001  
Floor Stand - P/N 10611  
Utility Basket - P/N 11450  
Long Crossbar - P/N 11452  
Circuit Support Arm - P/N 11501  
Humidifier Pole - P/N 11453  
Oxygen Canister Ring Set - P/N 11455  
UPS Mounting Bracket - P/N 15009-001

#### Extended Features

Apnea Back-up Ventilation  
Pressure Control and Pressure Support Variable Rise Time  
Pressure Control and Pressure Support Variable Flow Termination Criteria  
Pressure Support Variable Time Termination  
Leak Compensation  
O<sub>2</sub> Cylinder Duration

#### Power Specifications

11 - 15 VDC  
90 - 250 VAC  
47 - 63 Hz

#### Pneumatic Specifications:

Pressure Oxygen	40 - 80 PSIG (2.8 - 5.5 bar)
Low Pressure Source	< 80 lpm, <10 PSIG

#### Environmental Specifications

Operating Temperature	5 - 40 C (40 - 104 F)
Storage Temperature	-20 - 60 C (-4 - 140 F)
Operating Humidity	15% - 95% relative
Storage Humidity	10% - 95% relative
Shock Compliance	MIL-STD-810E
Vibration Compliance	MIL-STD-810E

#### Standards and Regulatory Compliance

ETC, cETL Listed  
ISO 13485 Registration  
IEC 601-2-12  
BSI Registered FM 45841