

LTV[®] 1000 Ventilator

The Evolution of Ventilation



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The LTV1000 represents an evolution of ventilation. Just as laptop computers are natural progressions of their predecessors; this fully self-contained ventilator offers today's most powerful features in a compact and lightweight design.

The LTV1000 employs a technology which eliminates the need for compressed air. It can also operate from an internal battery, external battery or AC power. And its unique pneumatic design and miniaturization technology provides versatility, functionality and maximum mobility allowing it to move with your patient across all clinical situations.

Versatile Applications

- Pediatric to Adult
- Critical Care
- Long Term Acute Care
- Short Term / Recovery Room

Non-Invasive Ventilation

- Adjustable rise time
- Variable flow termination
- Variable time termination
- Leak Compensation



Multiple Power Sources

- AC powered
- External/Internal DC powered
- Automotive lighter adapter

Patient Safety

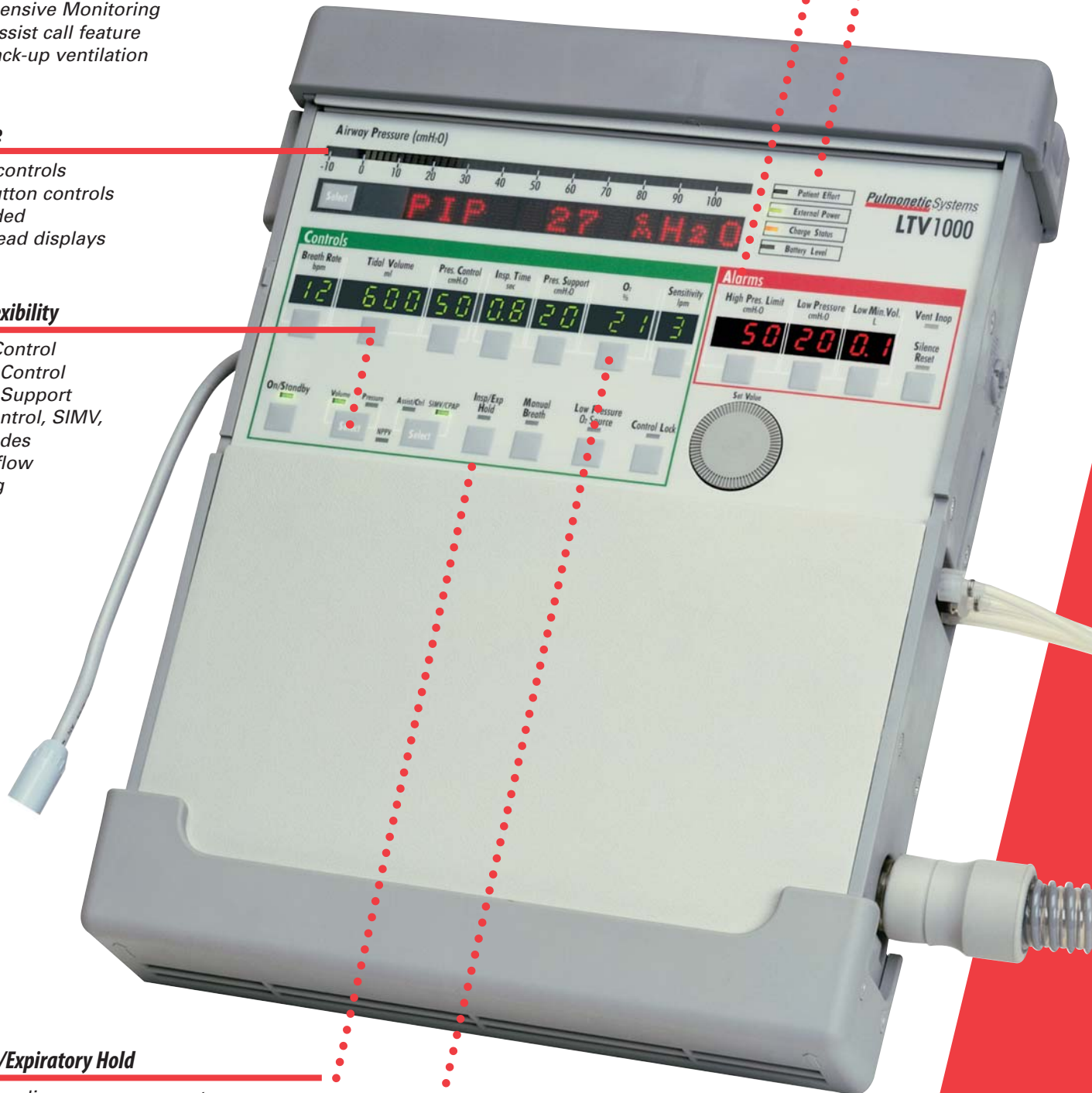
- Comprehensive Alarm Package
- Comprehensive Monitoring
- Patient Assist call feature
- Apnea back-up ventilation

Ease-of-Use

- Intuitive controls
- Single button controls
- Color coded
- Easy to read displays

Therapy Flexibility

- Volume Control
- Pressure Control
- Pressure Support
- Assist Control, SIMV, CPAP modes
- Variable flow triggering



Inspiratory/Expiratory Hold

- Static Compliance measurement
- AutoPEEP measurement

Oxygen Supplementation

- Built-in blending, 21% - 100% oxygen
- High-pressure or low flow source
- O₂ flush
- Automatic High O₂ Switch Over

Mobility Redefined

- Shown 65% actual size
- Lightweight (13.4 lbs. / 6.1 kgs)
- Compressorless technology
- Internal battery

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Specifications

Physical Specifications:

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 ₂ O
Pressure Support:	Off, 1 – 60 cmH ₂ O
Sensitivity:	Off, 1 – 9 lpm
% O ₂ :	21% - 100%
Low Pressure O ₂ Source:	On/Off
Bias Flow	10 lpm during exhalation
PEEP/CPAP:	0 – 20 cmH ₂ O
Control Lock:	Easy or Hard unlock methods
Insp/Exp Hold:	6 seconds maximum
Manual Breath:	1 x current settings
O ₂ Flush:	1 – 3 minutes

Variable Alarms:

Apnea Interval:	10 – 60 seconds
High Pressure Limit:	5 – 100 cmH ₂ O
Low Peak Pressure:	Off, 1 – 60 cmH ₂ 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 ₂ O
High Rate:	Off, 5 – 80 cmH ₂ O

Fixed Alarms:

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

Power Indicators:

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

With Boot:

Monitors and Indicators:

Peak Inspiratory Pressure:	0 – 120 cmH ₂ O
Mean Airway Pressure:	0 – 99 cmH ₂ O
PEEP:	0 – 99 cmH ₂ O
Total Breath Rate:	0 – 250 bpm
Airway Pressure Display:	-10 – 108 cmH ₂ 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 ₂ O
Static Compliance:	1.999 ml/ cmH ₂ O
Patient Effort:	Green LED

Optional Accessories:

LTM Graphics Monitor Package – P/N 17650-001
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
O₂ 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 75092