

## LTV<sup>™</sup> 1200 portable ventilator

# Experience the freedom: One ventilator, one circuit, multiple sites of care

## The ventilation tools you need, throughout the continuum of care, for patients 5 kg and above

At a fraction of the size of comparably equipped systems, the LTV 1200 ventilator provides the ventilation tools you need, where you need them–critical care, emergency departments and emergency preparedness, patient transport and long-term care.

#### A wide range of ventilation therapies for patients

The LTV 1200 ventilator offers both invasive and noninvasive modes of ventilation in Pressure Control, Pressure Support, Volume Control and Spontaneous Breath Types.

#### Patient presets for quick initiation of ventilation

Choose infant, pediatric or adult to quickly configure initial ventilation before optimizing settings for each patient's needs. This feature is proven to be simple and effective for emergency setup.

#### Unique Spontaneous Breathing Trial (SBT)

The SBT feature enhances the clinician's effectiveness during weaning with the potential to save time and money in the process. The SBT works using Rapid Shallow Breathing Index (RSBI) criteria to assess a patient's ability to be weaned. Clinicians can also optimize trial settings to each individual patient, ensuring the most favorable levels of support throughout the weaning process. The SBT feature allows the patient to synchronize their breathing pattern with Pressure Support and/or CPAP with variable rise time, flow termination and time termination.

#### Oxygen (O<sub>2</sub>) resource management tool

The O2 conserve feature reduces  $O_2$  consumption when the time and place of care require it. This feature extends the sometimes scarce resource of  $O_2$  during transport or emergencies, and may be turned off when  $O_2$  resources are again in full supply.





### Enhanced monitoring capabilities

Upgrade your system with our LTMTM Graphics Monitor, and you will be able to improve comprehensive monitoring of critical patient-ventilator interaction. The graphics monitoring package displays real-time pressure, flow and volume curves with adjustable cursors for accurate breath data measurement. The LTM monitor also displays flow/volume loops and volume/pressure loops to enhance patient assessment. Patient data can be trended for up to 24 hours for clinical evaluation.

## Customizable system configurations

The LTV 1200 ventilator system can be custom configured with a wide range of accessories to meet the needs of the most demanding care environments.

Accessories	Part number
LTM graphics monitor package	17650-001
Floor stand	10611
Short crossbar	11451
Long crossbar	11452
Circuit support arm	11501
Humidifier pole	11453
Utility basket	11450
SprintPack <sup>™</sup> lithium-ion power system	19222-001
SprintPack bracket	19096-001
SprintPack transport pack	19102-001

## Specifications

Physical specification	ons with boots (approx.)
Weight	14.5 lb (6.5 kg)
Height	3.25" (8.4 cm)
Width	10.5" (27 cm)
Depth	13.5" (38 cm)
Variable alarms	
Apnea interval	10 to 60 sec
High pressure limit	5 to 100 cmH <sub>2</sub> O
Low peak pressure	Off, 1 to 60 $\text{cmH}_2\text{O}$
Low minute volume	Off, 0.1 to 99 L
High PEEP	Off, 3 to 20 cmH $_{\!2}\text{O}$ above set PEEP
Low PEEP	Off, -3 to -20 cmH $_{\rm 2}{\rm O}$ below set PEEP
High rate	Off, 5 to 80 BPM
Alarm volume	60 to 85 dBA

PowerOn/StandbyVentilation modesControl, Assist/Control, SIMV/ CPAP and NPPVBreath typesVC, PC, PS and spontaneousBreath rate0 to 80 BPMTidal volume50 to 2,000 mLInspiratory time0.3 to 9.9 secPC/PS/Spont. flow160 LPMPressure control1 to 99 cmH,OPressure support1 to 60 cmH20SensitivityOff, 1 to 9 LPMO2%21 to 100%O2,flush1 to 3 minLow pressure O2On/OffPEEP/CPAP0 to 20 cmH20Inspiratory pressure0 to 100 cmH20Insp/Exp hold6 sec maxManual breath1x current settingsControl lockEasy or hard unlock optionsPeak inspiratory pressure0 to 120 cmH20PEEP0 to 99 cmH20Preath rate0 to 250 BPMAirway pressure display-10 to 108 cmH20Exhaled minute volume0 to 199.9 LLie ratio99:1 to 1:99Calculated peak flow1 to 999 mL/cmH20Patient effortGreen LEDFixed alarms1 to 999 mL/cmH20Patient effortGreen LEDFixed alarms1 to 999 mL/cmH20Patient effortI to 999 mL/cmH20Patient effortI to 999 mL/cmH20Patient effortJ to 999 mL/cmH20Patient effortI to 999 mL/cmH20Patient effortI to 999 mL/cmH20Patient effortI to 999 mL/cmH20Patient effortI to 999 mL/cmH20Patient effort	Controls	
Ventilation modes     CPAP and NPPV       Breath types     VC, PC, PS and spontaneous       Breath rate     0 to 80 BPM       Tidal volume     50 to 2,000 mL       Inspiratory time     0.3 to 9.9 sec       PC/PS/Spont. flow     160 LPM       Pressure control     1 to 99 cmH <sub>2</sub> O       Pressure support     1 to 60 cmH <sub>2</sub> O       Sensitivity     Off, 1 to 9 LPM       O <sub>2</sub> %     21 to 100%       O <sub>2</sub> flush     1 to 3 min       Low pressure O <sub>2</sub> On/Off       PEEP/CPAP     0 to 20 cmH <sub>2</sub> O       Insp/Exp hold     6 sec max       Manual breath     1x current settings       Control lock     Easy or hard unlock options       Mean airway pressure     0 to 120 cmH <sub>2</sub> O       PEEP     0 to 99 cmH <sub>2</sub> O       PEEP     0 to 99 cmH <sub>2</sub> O       Breath rate     0 to 250 BPM       Airway pressure display     -10 to 108 cmH <sub>2</sub> O       Exhaled minute volume     0 to 99.9 L       Exhaled minute volume     0 to 100 LPM       AutoPEEP     0 to 100 cmH <sub>2</sub> O       Static compliance     1 to 999	Power	On/Standby
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PC/PS/Spont. flow     160 LPM       Pressure control     1 to 99 cmH2O       Pressure support     1 to 60 cmH2O       Sensitivity     Off, 1 to 9 LPM       O2%     21 to 100%       O2 flush     1 to 3 min       Low pressure O2     On/Off       PEEP/CPAP     0 to 20 cmH2O       Insp/Exp hold     6 sec max       Manual breath     1x current settings       Control lock     Easy or hard unlock options       Mean airway pressure     0 to 120 cmH2O       Mean airway pressure     0 to 99 cmH2O       PEEP     0 to 99 cmH2O       PEEP     0 to 250 BPM       Airway pressure display     -10 to 108 cmH2O       Exhaled tidal volume     0 to 99.9 L       LiE ratio     99:1 to 1:99       Calculated peak flow     10 to 100 LPM       AutoPEEP     0 to 100 cmH2O       Static compliance     1 to 999 mL/cmH2O       Patient effort     Green LED       Fixed alarms     Jisconnect/sense       External power low and lost     High and low O2 inlet pressure       High and low O2 inlet pressure	Tidal volume	50 to 2,000 mL
Pressure control1 to 99 cmH2OPressure support1 to 60 cmH2OSensitivityOff, 1 to 9 LPMO2%21 to 100%O2 flush1 to 3 minLow pressure O2On/OffPEEP/CPAP0 to 20 cmH2OInsp/Exp hold6 sec maxManual breath1x current settingsControl lockEasy or hard unlock optionsMean airway pressure0 to 120 cmH2OPEEP0 to 99 cmH2OPeak inspiratory pressure0 to 99 cmH2OPeak inspiratory pressure0 to 99 cmH2OPeath rate0 to 250 BPMAirway pressure display-10 to 108 cmH2OExhaled tidal volume0 to 99.9 LLiE ratio99:1 to 1:99Calculated peak flow10 to 100 LPMAutoPEEP0 to 100 cmH2OStatic compliance1 to 999 mL/cmH2OPatient effortGreen LEDFixed alarmsUDisconnect/senseExternal power low and lostHigh and low O2 inlet pressureIInternal battery low and empty	Inspiratory time	0.3 to 9.9 sec
Pressure support     1 to 60 cmH2O       Sensitivity     Off, 1 to 9 LPM       O2%     21 to 100%       O2 flush     1 to 3 min       Low pressure O2     On/Off       PEEP/CPAP     0 to 20 cmH2O       Insp/Exp hold     6 sec max       Manual breath     1x current settings       Control lock     Easy or hard unlock options       Mean airway pressure     0 to 120 cmH2O       PeEP     0 to 99 cmH2O       Mean airway pressure     0 to 99 cmH2O       PEEP     0 to 99 cmH2O       PEEP     0 to 200 cmH2O       Breath rate     0 to 250 BPM       Airway pressure display     -10 to 108 cmH2O       Exhaled tidal volume     0 to 99.9 L       LiE ratio     99:1 to 1:99       Calculated peak flow     10 to 100 LPM       AutoPEEP     0 to 100 cmH2O       Static compliance     1 to 999 mL/cmH2O       Patient effort     Green LED       Fixed alarms     Josconnect/sense       External power low and lost     High and low O2 inlet pressure	PC/PS/Spont. flow	160 LPM
Sensitivity     Off, 1 to 9 LPM       Q2%     21 to 100%       Q2 flush     1 to 3 min       Low pressure Q2     On/Off       PEEP/CPAP     0 to 20 cmH2O       Insp/Exp hold     6 sec max       Manual breath     1x current settings       Control lock     Easy or hard unlock options       Monitors and indicators     0 to 20 cmH2O       Peak inspiratory pressure     0 to 120 cmH2O       Mean airway pressure     0 to 99 cmH2O       Breath rate     0 to 250 BPM       Airway pressure display     -10 to 108 cmH2O       Exhaled tidal volume     0 to 99.9 L       Exhaled minute volume     0 to 99.9 L       Li: ratio     99:1 to 1:99       Calculated peak flow     10 to 100 LPM       AutoPEEP     0 to 100 cmH2O       Static compliance     1 to 999 mL/cmH2O       Patient effort     Green LED       Fixed alarms     External power low and lost       High and low Q2 inlet pressure     Ito 999 mL/cmH2O	Pressure control	1 to 99 cmH <sub>2</sub> O
O2%     21 to 100%       O2 flush     1 to 3 min       Low pressure O2     On/Off       PEEP/CPAP     0 to 20 cmH2O       Insp/Exp hold     6 sec max       Manual breath     1x current settings       Control lock     Easy or hard unlock options       Monitors and indicators     0 to 20 cmH2O       Peak inspiratory pressure     0 to 99 cmH2O       Mean airway pressure     0 to 99 cmH2O       PEEP     0 to 200 mL       Airway pressure display     -10 to 108 cmH2O       Exhaled tidal volume     0 to 99.9 L       Exhaled minute volume     0 to 100 cmH2O       Static compliance     1 to 999 mL/cmH2O       Patient effort     Green LED       Fixed alarms     External power low and lost       High and low O2 inlet pressure     Ito 999 mL/cmH2O	Pressure support	1 to 60 cmH <sub>2</sub> O
Q2 flush     1 to 3 min       Low pressure Q2     On/Off       PEEP/CPAP     0 to 20 cmH2O       Insp/Exp hold     6 sec max       Manual breath     1x current settings       Control lock     Easy or hard unlock options       Monitors and indicators     0 to 120 cmH2O       Peak inspiratory pressure     0 to 99 cmH2O       Mean airway pressure     0 to 20 cmH2O       Breath rate     0 to 20 cmH2O       Breath rate     0 to 200 cmH2O       Exhaled tidal volume     0 to 250 BPM       Airway pressure display     -10 to 108 cmH2O       Exhaled minute volume     0 to 99.9 L       I:E ratio     99:1 to 1:99       Calculated peak flow     10 to 100 LPM       AutoPEEP     0 to 100 cmH2O       Static compliance     1 to 999 mL/cmH2O       Patient effort     Green LED       Fixed alarms     Jisconnect/sense       External power low and lost     High and low Q2 inlet pressure	Sensitivity	Off, 1 to 9 LPM
Low pressure O2     On/Off       PEEP/CPAP     0 to 20 cmH2O       Insp/Exp hold     6 sec max       Manual breath     1x current settings       Control lock     Easy or hard unlock options       Monitors and indicators     Peak inspiratory pressure       Peak inspiratory pressure     0 to 120 cmH2O       Mean airway pressure     0 to 99 cmH2O       PEEP     0 to 99 cmH2O       Breath rate     0 to 250 BPM       Airway pressure display     -10 to 108 cmH2O       Exhaled tidal volume     0 to 99.9 L       Exhaled minute volume     0 to 99.9 L       Life ratio     99:1 to 1:99       Calculated peak flow     10 to 100 cmH2O       AutoPEEP     0 to 100 cmH2O       Patient effort     Green LED       Fixed alarms     Disconnect/sense       External power low and lost     High and low O2 inlet pressure       High and low O2 inlet pressure     Internal battery low and empty	O <sub>2</sub> %	21 to 100%
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Manual breath1x current settingsManual breath1x current settingsControl lockEasy or hard unlock optionsMonitors and indicatorsEasy or hard unlock optionsMean airway pressure0 to 120 cmH20Mean airway pressure0 to 99 cmH20PEEP0 to 99 cmH20Breath rate0 to 250 BPMAirway pressure display-10 to 108 cmH20Exhaled tidal volume0 to 4,000 mLExhaled minute volume0 to 99.9 LI:E ratio99:1 to 1:99Calculated peak flow10 to 100 LPMAutoPEEP0 to 100 cmH20Static compliance1 to 999 mL/cmH20Patient effortGreen LEDFixed alarmsJisconnect/senseExternal power low and lostHigh and low 02 inlet pressureInternal battery low and emptyIternal battery low and empty	PEEP/CPAP	0 to 20 cmH <sub>2</sub> O
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Peak inspiratory pressure     0 to 120 cmH <sub>2</sub> O       Mean airway pressure     0 to 99 cmH <sub>2</sub> O       PEEP     0 to 99 cmH <sub>2</sub> O       Breath rate     0 to 250 BPM       Airway pressure display     -10 to 108 cmH <sub>2</sub> O       Exhaled tidal volume     0 to 4,000 mL       Exhaled minute volume     0 to 99.9 L       I:E ratio     99:1 to 1:99       Calculated peak flow     10 to 100 LPM       AutoPEEP     0 to 100 cmH <sub>2</sub> O       Static compliance     1 to 999 mL/cmH <sub>2</sub> O       Patient effort     Green LED       Fixed alarms     Use of the second se	Control lock	Easy or hard unlock options
Mean airway pressure   0 to 99 cmH20     PEEP   0 to 99 cmH20     Breath rate   0 to 250 BPM     Airway pressure display   -10 to 108 cmH20     Exhaled tidal volume   0 to 4,000 mL     Exhaled minute volume   0 to 99.9 L     I:E ratio   99:1 to 1:99     Calculated peak flow   10 to 100 LPM     AutoPEEP   0 to 100 cmH20     Static compliance   1 to 999 mL/cmH20     Patient effort   Green LED     Fixed alarms   Disconnect/sense     External power low and lost   High and low 02 inlet pressure     Internal battery low and empty   Internal battery low and empty	Monitors and indicators	
PEEP     0 to 99 cmH2O       Breath rate     0 to 250 BPM       Airway pressure display     -10 to 108 cmH2O       Exhaled tidal volume     0 to 4,000 mL       Exhaled minute volume     0 to 99.9 L       I:E ratio     99:1 to 1:99       Calculated peak flow     10 to 100 LPM       AutoPEEP     0 to 100 cmH2O       Static compliance     1 to 999 mL/cmH2O       Patient effort     Green LED       Fixed alarms     External power low and lost       High and low O2 inlet pressure     Internal battery low and empty	Peak inspiratory pressure	0 to 120 cmH <sub>2</sub> O
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I:E ratio     99:1 to 1:99       Calculated peak flow     10 to 100 LPM       AutoPEEP     0 to 100 cmH2O       Static compliance     1 to 999 mL/cmH2O       Patient effort     Green LED       Fixed alarms        Disconnect/sense        External power low and lost        High and low O2 inlet pressure        Internal battery low and empty	Exhaled tidal volume	0 to 4,000 mL
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Static compliance   1 to 999 mL/cmH2O     Patient effort   Green LED     Fixed alarms   Disconnect/sense     External power low and lost   High and low O2 inlet pressure     Internal battery low and empty	Calculated peak flow	10 to 100 LPM
Patient effort Green LED   Fixed alarms   Disconnect/sense   External power low and lost   High and low O2 inlet pressure   Internal battery low and empty	AutoPEEP	0 to 100 cmH <sub>2</sub> O
Fixed alarms     Disconnect/sense     External power low and lost     High and low O2 inlet pressure     Internal battery low and empty	Static compliance	1 to 999 mL/cmH₂O
Disconnect/sense External power low and lost High and low O2 inlet pressure Internal battery low and empty	Patient effort	Green LED
External power low and lost High and low O2 inlet pressure Internal battery low and empty	Fixed alarms	
High and low O2 inlet pressure Internal battery low and empty	Disconnect/sense	
Internal battery low and empty	External power low and lost	
	High and low O <sub>2</sub> inlet pressur	e
Ventilator inoperative	Internal battery low and emp	oty
	Ventilator inoperative	

SBT	
Ventilator presets (infant, p	pediatric and adult)
Variable rise time	
Variable flow termination	
Variable time termination	
Pressure control flow termi	nation
Leak compensation	
O <sub>2</sub> conserve	
O <sub>2</sub> cylinder duration calcul	ation
O₂ flush	
Apnea interval	
Pneumatic specifications	
High pressure O2 source	40 to 80 PSIG (2.8 to 5.5 bar)
Low pressure O <sub>2</sub> source	<80 LPM, <10 PSIG
Power indicators	
External power	Green and amber LEDs
Battery charge status	Green, amber and red LEDs
Battery level	Green, amber and red LEDs
Power specifications	
Ventilator input 11 to 15 VD	С
AC adapter input 100 to 25	50 VAC
50 to 60 Hz	
Environmental specificat	ions
Operating temperature	5 to 40 °C (40 to 104 °F)
Storage temperature	<b>-20 to 60 °C</b> (-4 to 140 °F)
Operating humidity	15 to 95% relative
Storage humidity	10 to 95% relative
Shock compliance	MIL-STD-810F
Vibration compliance	MIL-STD-810F
Standards and regulator	y compliance
RTCA/DO-160F	
ANSI/UL STD 60601-1	
IEC 60601-2-12	
cETLus	
CAN/CSA C22.2 STD NO. 6	011



#### GLOBAL HEADQUARTERS

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