

SSHL

R16

**ICU+TRANSPORT
VENTILATOR**



- Single circuit with leak ✓
- Single circuit with valve ✓
- Double circuit ✓

THERAPY

- Valve circuit therapy: CPAP, (A)CV, P(A)CV, P-SIMV, V-SIMV, PS ✓
- Leak circuit therapy: CPAP, (S)T, P(A)C, PS with SVt, iVAPS* and optional AutoEPAP** ✓
- Mouthpiece ventilation therapy: (A)CV, P(A)CV, PS/SVt ✓
- Manual breath ✓
- Sigh breath (recruitment) ✓
- Apnea ventilation ✓
- Preset programs ✓

Volume and pressure
4

PRESSURE RANGE AND SETTINGS

Delivered pressure (cmH2O)	2–50 (leak circuit) 0–50 (valve circuit)
Delivered tidal volume (mL)	Adult: 100–2500 mL Pediatric: 50–300 mL
Respiratory rate	Adult: Off, 2–50 bpm Pediatric: Off, 5–80 bpm

DIMENSIONS

Weight	7.1 lbs (3.2 kg)
Dimensions (L x W x H)	285 mm x 215 mm x 93 mm
Internal battery	Lithium-Ion battery, 14.4V, 6.6 Ah, 95 Wh. 8 hours of backup power
Sound power level	43 ± 3 dBA***
Sound pressure level	35 ± 3 dBA***

DATA

SpO2 monitoring	Optional
FiO2 monitoring	✓
On screen	30 days of summary data
ResScan™ (via download)	Real-time pressure and flow (25 Hz) 365 days of summary data 7 days of detailed data
AirView™ (RCM required)	365 days of summary data 7 days of detailed data
Alarms	A wider range of settable alarms are available including FiO2 and SpO2 when connected.

SSHL V6

VENTILATOR

PRODUCT OVERVIEW

1. 360° Rotatable
2. 15.6" TFT Touch Screen (18.5" Optional)
3. One-hand operative valves
4. Stable and durable trolley (with brake)

PHYSICAL SPECIFICATIONS

Dimensions (L*W*H): 404mm*297mm*576mm (main unit)
538mm*495mm*1391mm (with trolley)
Weight: Approximately 21.0kg (main unit), Approximately
< 45.3 kg (with trolley)

POWER & BATTERY BACKUP

External AC power supply Input Voltage: 100-240V
Input Frequency: 50/60Hz
Battery Type: Build-in Lithium-ion Battery, 14.8VDC, 5200mAh

Battery Running Time: 6 hours (2 Qty Battery)

ENVIRONMENTAL SPECIFICATIONS

<u>Specifications</u>	<u>Operating</u>	<u>Strong and transport</u>
Temperature	5-40°C	-20 to +60°C (O2 Sensor, -20 to +50°C)
Relative Humidity	10-95%	10-95%
Barometric Pressure	62-106kPa	50-106kPa

TREND & RECORD

Type: Tabular, Graphic
Length: 24 hours
Content: Monitor Parameters
Event Log: 5000

GAS SUPPLY

Gas Supply: Medical-grade Oxygen
Pipe Connector: NIST or DISS
Gas Supply Pressure: 280-600kPa

LOW-PRESSURE OXYGEN INLET

Gas Supply: Medical-grade Oxygen
Maximum Flow: 15 L/min (STPD)
Connector: CPC quick connector



Controlled Parameters (O2 Therapy)

Parameter: 2.0 to 50.0
O2 Concentration: 20 to 100
Pmax: 10 to 95

COMMUNICATION INTERFACE

O2 therapy	Screen-lock
Nebulization	Sigh
Manual Breath	SPO2
Inspiratory Hold	CO2
Expiratory Hold	RSB
PEEPi	Compliance
PO.1	Calibrate
ATC	O2 suction

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O2 suction

GAS SUPPLY

Gas Supply : Medical-grade Oxygen

Pipe Connector : NIST or DISS

Gas Supply Pressure : 280-600kPa

LOW-PRESSURE OXYGEN INLET

Gas Supply : Medical-grade Oxygen

Maximum Flow : 15 L/min (STPD)

Connector : CPC quick connector



LTV-950

PHYSICAL SPECIFICATIONS WITH BOOTS (APPROX.)

Weight: 13.4 lbs. (6.1 kg)
Height : 3 inches (8 cm)
Width: 10 inches (23 cm)
Depth: 12 inches (30 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 cmH₂O

Pressure Support: Off, 1 – 60 cmH₂O

Sensitivity: Off, 1 – 9 lpm

Bias Flow: 10 lpm during exhalation
PEEP/CPAP: 0 – 20 cmH₂O

Control Lock: Easy or Hard unlock methods

Manual Breath: 1 x current settings

VARIABLE ALARMS:

Apnea Interval: 10 – 60 seconds

High Pressure Limit: 5 – 100 cmH₂O

Low Peak Pressure: Off, 1 – 60 cmH₂O (40° – 104°F)

Low Minute Volume: Off, 0.1 – 99 liters

Alarm Volume: 60 – 85 dBA at 1 meter (-4° – 140°F)

Alarm Silence/Reset: 60 seconds

Ventilator Inoperative: Red LED, audible alarm

High Rate Alarm: Off, 5 – 80 bpm

High PEEP Alarm: Off, 3 – 40 cmH₂O

MONITORS AND INDICATORS:

Peak Inspiratory Pressure: 0 – 120 cmH₂O

Mean Airway Pressure: 0 – 99 cmH₂O

PEEP: 0 – 99 cmH₂O

Total Breath Rate: 0 – 250 bpm Airway

Pressure Display: -10 – 108 cmH₂O

Exhaled Tidal Volume: 0 – 4000 ml

Total Minute Volume: 0 – 99.9 liters

I:R Ratio: 99:1 – 1:99 Calculated Peak

Flow: 10 – 100 lpm 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-
EON1VIRONMENTAL

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



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

POWER SPECIFICATIONS:

11 – 15 VDC

90 – 250 VAC

47 – 63 Hz

POWER SPECIFICATIONS:

ETC, cETL Listed

ISO 13485 Registration
IEC 601-2-12

BSI Registered FM 75092

FIXED ALARMS:

Disconnect/Sense Line
Low & Lost External Power
Low & Empty Internal Battery
High & Low Oxygen Inlet Pressure

LTV-1000

MONITORS AND INDICATORS

- PEEP 0–99 cmH₂O
- Airway pressure display -10 to 108 cmH₂O
- 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

PNEUMATIC SPECIFICATIONS

- Low pressure O₂ 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

SPECIFICATIONS

brand : kaarya

Model LTV 1000

Usage/Application Hospital

Weight 14.5lbs (65 kg)

Power Source Electric

Tidal Volume 50-2,000 mL

Power Consumption 100-250 VAC, 50-60 Hz

Breath Rate 0-80 BPM, 0-250 BPM

Inspiratory Time 0.3-9.9 sec

Size W 10.5" (26.7cm) x H 3.25" (8.3cm) x D 13.5" (34.3cm)

Features Power On/Standby

Ideal in Second Hand Only

Storage Humidity 10-95% relative

Operating Humidity 15-95% relative

Shock Compliance IEC 68-2-27, MIL-STD-810E

Input Voltage 11-15 VDC

Mean Airway Pressure 0-99 cmH₂O

Peak Inspiratory Pressure 0-120 cmH₂O

Storage Temperature -20 to 60 deg C

Vibration Compliance IEC 68-2-34 and 68-2-6, MIL-STD-810E

Breath Types VC, PS and Spontaneous

Ventilation Modes: Control, Assist/Control, SIMV/CPAP and NPPV

Operating Temperature 50-40 deg C

Spontaneous Flow 160 LPM

Pressure Support 1-60 cmH₂

Flow Sensitivity Off 1-9 LPM



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

LTV-1150

PHYSICAL SPECIFICATIONS 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 cmH₂O

○

Low peak pressure: Off, 1 to 60 cmH₂O

Low minute volume: Off, 0.1 to 99 L

High PEEP: Off, 3 to 20 cmH₂O

above set PEEP PEEP: Off, -3 to -20

cmH₂O below set PEEP

High rate: Off, 5 to 80 BPM

Alarm volume: 60 to 85 dBA

CONTROLS

Power: On/Standby

Ventilation modes: Control, Assist/Control, SIMV/CPAP and NPPV

Breath types: VC, PC, PS and Spontaneous

Breath rate: 0 to 80 BPM

Tidal volume: 50 to 2000 mL

Inspiratory time: 0.3 to 9.9 sec

PC/PS/Spont. flow: 160 LPM

Pressure control: 1 to 99 cmH₂O

Pressure support: 1 to 60 cmH₂O

Sensitivity: Off, 1 to 9 LPM

PEEP/CPAP: 0 to 20 cmH₂O

Insp./Exp. hold: 6 sec max

Manual breath: 1x current settings

Control lock: Easy or hard unlock options

FIXED ALARMS

Disconnect/sense

External power, low and lost

Internal battery, low and empty

Ventilator inoperative

STANDARDS AND REGULATORY COMPLIANCE

RTCA/DO-160F

ANSI/UL STD 60601-1

IEC 60601-2-12

cETLus

CAN/CSA C22.2 STD NO. 601.1

EXTENDED FEATURES

Spontaneous breathing trial (SBT)

Ventilator presets (on/off)

Variable rise time

Variable flow termination

Variable time termination

Pressure control flow termination

Leak compensation

Apnea interval

MONITORS AND INDICATORS

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 4,000 mL

Exhaled tidal volume: 0 to 999 mL

Exhaled tidal volume: 0 to 999 mL

Exhaled tidal volume: 0 to 999 mL

Calculated peak flow: 10 to 100 LPM

AutoPEEP: 0 to 100 cmH₂O

Static compliance: 1 to 999 mL/cmH₂O

Static compliance: 1 to 999 mL/cmH₂O

Patient effort: Green LED



POWER INDICATORS

External power : Green and amber LEDs

Battery charge status : Green, amber and red LEDs

POWER SPECIFICATIONS

Ventilator input 11 t AC adapter input 100 to 250 VAC 50 to 60 Hz

ENVIRONMENTAL SPECIFICATIONS

Operating temperature : 5 to 40

°C (40 to 104 °F)

Storage temperature -20 to 60 °C

(-4 to 140 °F)

Operating humidity : 15 to 95%

relative

Storage humidity 10 to 95%

Vibration compliance : MIL-STD-810F

LTV-1200



Physical Specifications with Boots (Approx.)

Weight: 14.5 lbs (6.5 kg) 3.25
 Height: inches (8.4 cm) 10.5
 Width: inches (27 cm) 13.5
 Depth: inches (38 cm)

Controls

Power: On/Standby
 Ventilation Modes: Control, Assist/Control, SIMV, CPAP and NPPV
 Breath Types: VC, PC, PS and Spontaneous
 Breath Rate: 0 to 80 bpm
 Tidal Volume: 50 to 2000 ml
 Inspiratory Time: 0.3 to 9.9 seconds
 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 minutes
 Low Pressure O2: On/Off
 PEEP/CPAP: 0 to 20 cmH2O
 Insp/Exp Hold: 6 second maximum
 Manual Breath: 1 x current settings
 Control Lock: Easy or Hard Unlock

Variable Alarms

Apnea Interval: 10 to 60 seconds
 High Pressure Limit: 5 to 100 cmH2O
 Low Peak Pressure: Off, 1 to 60 cmH2O
 Low Minute Volume: Off, 0.1 to 99 liters
 High PEEP: Off, 3 to 40 cmH2O
 Low PEEP: Off, -3 to -20 cmH2O
 High Rate: Off, 5 to 80 cmH2O
 Alarm Volume: 60 to 85 dBA at 1 meter

Monitors and Indicators

Peak Inspiratory Pressure: 0 to 120 cmH2O
 Mean Airway Pressure: 0 to 99 cmH2O 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 4000 ml
 Exhaled Minute Volume: 0 to 99.9 liters
 I:E Ratio: 99:1 to 1:99
 Calculated Peak Flow: 10 to 100 lpm
 AutoPEEP: 0 to 100 cmH2O
 Static Compliance: 1.999 ml/cmH2O
 Patient Effort: Green LED

Power Specifications

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

Extended Features

Spontaneous Breathing Trial (SBT)
 Ventilator Presets (Infant, Pediatric and Adult)
 Variable Rise Time
 Variable Flow Termination
 Variable Time Termination
 Pressure Control Flow Termination
 Leak Compensation
 O2 Cylinder Duration Calculation
 O2 Flush
 Apnea Backup Ventilation

Pneumatic Specifications

Pressure Oxygen: 40 to 80 PSIG (2.8 to 5.5 bar)
 Low Pressure 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

Environmental Specifications

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

Fixed Alarms

Disconnect/Sense Line
 External Power Low & Lost
 High & Low Oxygen Inlet Pressure
 Internal Battery Low & Empty
 Ventilator Inoperative



Thank You

For Your Attention



+91-9170019111, 9170018111



surgisourcehealthcare@gmail.com



www.surgisourcehealthcare.com



J-1312, Goldstar homes, Vrindavan
Yojana, Lucknow

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