

LTV[®] VENTILATOR COMPETENCY CHECKLIST

This checklist is for use in training personnel on the Pulmonetic Systems LTV[®] Series Ventilators. A trained operator should be able to perform all the tasks listed on this checklist except:

- Optional features that are not available on the LTV[®] model they will be using.
- Methods or modes not used in the intended environment or facility. (e.g. It is not necessary to demonstrate setting up NPPV if that mode is not used at their facility.)

The trainer should mark any topics that were not required training for this facility as N/A and mark all topics that the trainee successfully completed. The tester, trainee, and if appropriate, the trainee's supervisor should sign this sheet. Keep these sheets as a training record.

Date Trained	_____
Training Site	_____
LTV Model	_____
Tester Name	_____
Signature	_____
Trainee Name	_____
Signature	_____
Supervisor Name	_____
Signature	_____

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Assembly

- ____ • Connect external power
 - ____ ◦ AC power
 - ____ ◦ External battery (if being used)
 - ____ ◦ Car adapter (if being used)
 - ____ ◦ Understand display blanking while on battery power
- ____ • Set up vent on stand
 - ____ ◦ AC adapter
 - ____ ◦ O₂ (if being used)
- ____ • Disassemble / assemble exhalation valve
 - ____ ◦ Spring and diaphragm correctly installed
- ____ • Attach circuit
 - ____ ◦ Twist sense lines before connecting
 - ____ ◦ Sense ports up on exhalation valve
- ____ • Connect O₂ source
 - ____ ◦ High pressure (if being used)
 - ____ ◦ Low pressure (if being used)
- ____ • Connect humidifier or HME (if being used)
- ____ • Attach test lung (if being used)
- ____ • Turn vent on & off

Checkout Tests

- ____ • Run Vent Check tests
 - ____ ◦ Alarm
 - ____ ◦ Display
 - ____ ◦ Control
 - ____ ◦ Leak
 - ____ ◦ Exit to begin ventilation
- ____ • Run other tests as required by hospital / facility protocol

Controls

- ____ • Set Variable Controls
 - ____ ◦ Breath Rate, Tidal Volume, Pressure Control, Inspiratory Time, Pressure Support, Sensitivity
 - ____ ◦ High Pressure Limit, Low Pressure, Low Min Vol
- ____ • O₂ setting
 - ____ ◦ %O₂ if high pressure
 - ____ ◦ Low O₂ Source if low pressure
- ____ • Change Modes
 - ____ ◦ Select A/C or SIMV/CPAP
 - ____ ◦ Select Volume or Pressure

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- _____ • Use single press buttons
 - Manual Breath, Select, Silence/Reset
- _____ • Set PEEP
- _____ • Silence alarms
- _____ • Clear active alarms
- _____ • Clear INOP alarm after power off
- _____ • Lock and unlock (easy and hard)
- _____ • Change displayed Monitor reading
- _____ • Understand flashing Pressure Control (flow terminated breath) and Pressure Support (time terminated breath) displays

Alarms

- _____ • Understand meaning of each alarm
 - Low Min Vol, LMV Off, High Pres, Low Pres, Sense/Disc, Apnea, High O₂ Pres, Low O₂ Pres, HW Fault, XDCR Fault, Reset, Defaults
- _____ • Understand flashing alarm display indicates alarm occurred
- _____ • Silence an alarm
- _____ • Clear an alarm
- _____ • Set HP Delay and understand why HIGH PRES flashes but no audible alarm

Monitors

- _____ • Describe each of the monitors meanings
- _____ • Identify a patient effort

Extended Features

- _____ • Enter and navigate Extended Features menus
 - Press and hold Select to enter Extended Features
 - Can't enter with alarm displayed
 - Use Select to enter a menu and to choose an option
 - Select EXIT or use Control Lock to exit a menu or abandon a displayed setting
- _____ • Understand and set each extended features item
 - Alarm Op: Apnea Interval, Alarm Volume, HP Delay
 - Vent Op: Rise Time, Time Termination, Flow Termination, PC Flow Termination, NPPV Mode, Unlock, Language, Date Format, PIP LED
 - Set the Date and Time
 - Request an Autozero

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Clinical Operation

- ____ • Control Mode (A/C mode, Sens = "-")
 - ____ ◦ Set up Control Mode ventilation in Volume
 - ____ ◦ Set up Control Mode ventilation in Pressure
- ____ • Assist/Control Mode (A/C mode, Sens on)
 - ____ ◦ Set up Assist/Control Mode ventilation in Volume
 - ____ ◦ Set up Assist/Control Mode ventilation in Pressure
- ____ • SIMV Mode (SIMV/CPAP mode, BR>0)
 - ____ ◦ Set up SIMV mode ventilation in Volume & Pressure Support
 - ____ ◦ Set up SIMV mode ventilation in Volume & Spontaneous
 - ____ ◦ Set up SIMV mode ventilation in Pressure & Pressure Support
 - ____ ◦ Set up SIMV mode ventilation in Pressure & Spontaneous
- ____ • CPAP Mode (SIMV/CPAP mode, BR = 0)
 - ____ ◦ Set up CPAP mode ventilation in Pressure Support
 - ____ ◦ Set up CPAP mode ventilation in Spontaneous
- ____ • Apnea Ventilation
 - ____ ◦ Set up Apnea Backup Ventilation
- ____ • Special Conditions
 - ____ ◦ Set up NPPV Mode
 - ____ ◦ Set up bi-level ventilation in SIMV using PC with flow termination on, PS at same level as PC, and PEEP, if method used
 - ____ ◦ Adjust Sensitivity in a leak environment to eliminate autocycling
- ____ • Volume ventilation setting methods
 - ____ ◦ Choose Volume ventilation mode
 - ____ ◦ Set Volume ventilation based on TV and Insp Time, if method used
 - ____ ◦ Set Volume ventilation based on TV and Peak Flow, if method used
- ____ • Pressure ventilation setting methods
 - ____ ◦ Choose Pressure ventilation mode
 - ____ ◦ Set Pressure ventilation based on PC and Insp Time
- ____ • Setting based on I:E Ratio
 - ____ ◦ Set Insp Time and Breath Rate to meet a specified I:E ratio, if method used
- ____ • Usage Cautions
 - ____ ◦ Not for use in MRI area
 - ____ ◦ Minimum patient size 10kg
 - ____ ◦ Average 1.0 hr battery

Cleaning

- ____ • Reusable circuits
 - ____ ◦ Sterilization by liquid agent, autoclave
 - ____ ◦ Disassemble & assemble exhalation valve
- ____ • Wipe the vent down