

## Setting up and running the LTV 1000 ventilator

See associated video at [www.salfordcriticalcare.org](http://www.salfordcriticalcare.org)

### Equipment

- LTV 1000 Ventilator and stand (including mains cable and battery pack in basket)
- Disposable 22mm Patient circuit with PEEP, 2 HME viral filters, Catheter mount, Test lung.



### Initial Set-up

- Attach the power supply and ensure the battery pack is connected to the mains and the ventilator



- Attach the HME to the ventilator, disposable ventilator tubing and the triple sensor/PEEP valve tubing (colour coded).



- Attach the HME/catheter mount to the ventilator tubing and attach the test lung.

### Ventilator Partial Self-Test

- Press and hold the 'standby' and 'select' buttons simultaneously to start the ventilator check



- Press the 'silence/reset' button to confirm that the patient is not connected
- Press the select button to confirm each element of the check
- Prior to the leak test, remove the test bag, occlude the circuit with your thumb, push select to start.
- Press select to exit and move on to set up the ventilator settings

### Ventilation settings

- Perform all set up manoeuvres with the test lung attached to the ventilator tubing/catheter mount.
- Each setting can be adjusted by first selecting the relevant button on the 'controls' panel, using the wheel dial to select desired setting and finally re-pressing the relevant button to confirm the setting.
- Turn on the Ventilator** (hold on/standby button 3 s) –it will start ventilating immediately.



- Select volume or pressure controlled ventilation (button to the right of 'standby')
- Select SIMV/CPAP (button next to the right)
- Select respiratory rate
- Adjust the 'Insp time' to select the desired I:E ratio
- Select the desired inspiratory volume/pressure as per CCU ARDS ventilation QRG.



- Select the required oxygen percentage
- Set the high pressure limit accordingly
- Set the PEEP to 10cmH2O by rotating the PEEP valve on the ventilation circuit (push down yellow disc)
- The ventilator is now ready to go. Scroll through the measured variables (PEEP, TV etc) by pushing the 'Select' button repeatedly to check it is set up correctly
- Attach to patient. If alarms push alarm silence button twice to reset alarm