

Merlin Disinfection

If Merlin has become contaminated with respiratory pathogens or it is required to disinfect Merlin between patients, the following procedure should be followed. This procedure was validated in 2006 and details of the validation procedure can be obtained on request.

Disinfection of Merlin requires the use of a product called F10 in aerosol form. The Merlin ventilator is put in continuous fast run mode by the following settings:

Flow: 25.0L/min

Inspiratory time: PL (pressure cycling mode)

Expiratory time : 2.0 seconds

MWPL: Greater than 10

Assist: not used - make sure the Assist mode is OFF

Use a weak rubber band to permanently hold the Alarm in Reset as shown.





Fit a right-angled 22mm connector to the Gas-In port of Merlin and angle it at about 45 degrees. Fit a one-way valve on the To-Patient port of Merlin. No other connections are necessary or required.



Set Merlin to Run so that the ventilator cycles continuously. Spray a 2-second burst of F10 into the open green connector on the return stroke of the piston. This is when the piston is filling with gas and sucking air from the Gas-In port. Do this at least 6 times. This will allow F10 aerosol to be pulled directly into Merlin and leave a small pool of F10 in the green connector.

Now, leave Merlin running in this continuous mode for 15 minutes at which time repeat the above procedure by spraying in a further 6, 2-second bursts of F10. Allow the ventilator to run continuously for a further 30 minutes or until the pool of F10 in the green connector has gone, **whichever is the longer**.

Disinfection is then complete.

F10 is a safe compound suitable for inhalation and nebulising of animals. Therefore any residue or remains of F10 will have no deleterious effect on any animals subsequently ventilated with Merlin.