

HAMILTON MR1 TURNAROUND AND DEVICE CHECK

- After use throw away single limb circuit, HME filter, CO2 cuvette (if used) and catheter mount. Remove blue expiratory valve by twisting to the left and send complete with white membrane expiratory back to SSD by placing into red striped used instrument bag, into red SSD box in sluice. Clean down outside of MR1 with Clinell Universal sanitising wipes. Complete first part of “ICU VENTILATOR DECONTAMINATION AND CHECK” form – forms in holder on Technologists door. Check air intake filter on left side – if dirty you can wipe off excess dust and then let Technologist know for further cleaning.
- Take expiratory valve* and single limb 3m breathing circuit from right hand cupboard opposite Technologist’s room, and HME filter, and catheter mount from grey bins in Technologist’s room. Place label from SSD expiratory valve packaging onto “ICU VENTILATOR DECONTAMINATION AND CHECK” form.
- Assemble expiratory valve, making sure metal disc on white membrane is facing towards you and membrane seated correctly around rim of valve. Place onto expiratory port making sure white membrane side goes in first and twist to left before fully twisting to the right once it is firmly in. If possible keep packing with the vent.
- Attach single limb circuit (keep plastic bag) onto inspiratory and expiratory ports on right side of ventilator so the limb hangs down to the left as you look at it, and peel apart blue/clear flow sensor tubing and place onto corresponding ports above the limb – note white port is for clear tube. At other end of limb remove blue cap and keep, making sure a clear connector is attached to flow sensor tubing as this is required for calibrating, then connect HME and catheter mount.
- Connect O2 hose, and plug MR1 into mains.
- Switch MR1 on, via on / off switch top right of front screen. MR1 does self tests, and displays standby screen.
- Now in standby select “Preop Check”, bottom left of screen, then select “Flow Sensor”, follow instructions to turn flow sensor (remember you need the clear connector when it asks you to turn flow sensor, otherwise it won’t connect to the breathing circuit). Then turn it back when prompted and keep the clear connector – either clipped back on flow sensor tubing or in SSD bag.
- Select “Tightness”, follow instructions it will say “disconnect patient”, then “tighten patient system” – use blue cap placed onto catheter mount to tighten patient system. After complete will say “connect patient” briefly which means it has passed and ready for use. Leave blue cap on to show circuit is new.
- Generate an alarm by unplugging from mains, should display “loss of external power” and this is to check ventilator alarm system is working.
- Only calibrate O2 if necessary.
- Switch off ventilator by pressing and holding top right button for 3 seconds.
- Place bag breathing circuit came in, over the filter and catheter mount to show clean circuit
- Complete the first part of the “ICU VENTILATOR DECONTAMINATION AND CHECK” form, ready for second part to be completed before MR1 attached to patient.

REVIEWED NOV 2022 DG

** If there aren't any expiratory valves in cupboard as they are all being cleaned in SSD, please reuse and clean current one as best as possible, and make sure an HME filter is used with circuit. Inform Support Assistants / Technologist or contact 7238 to chase.*