Covid-19 Guideline
Use of Maquet Flow I anaesthetic machines

NHS Worcestershire Acute Hospitals NHS Trust

Flow-I Anaesthetic Machine Setup

- Covidien/intersurgical/Drager **combined HME/filter** on Y piece (patient end)
- Drager Safe-star 55 (red) **filter** on expiratory limb
- Ensure all connections tight and secure
- In line tracheal suction set up and connected
- Turn on and perform machine checkout (on screen instructions) – 6 mins
- Set alarms to 100%
- Increase fresh gas flow to above 6L default, if hospital O2 supplies not critical, set for 20L and machine will deactivate rebreathing and therefore not accumulate water/use soda lime
- Suggested initial vent setup, PRVC, 100% 0_2, PEEP 8, RR 20, I:E 1:2, TV 6-8ml/kg

Flow-I Anaesthetic Machine Troubleshooting

- Filters
  - Keep y-piece HME above level of ETT to reduce waterlogging
  - When changing use 'pause' function, **not** machine standby/end-case
  - Change 12 hourly if needing to run at low flow, otherwise 24hrly
- Co2 trace/monitoring problems – check water trap empty/filter clogged
- Is water accumulating in vent tubing/soda lime pink/inspired C02 rising – increase fresh gas flow to avoid rebreathing (20L/min will disable rebreathing)/change soda lime
- Resistance/ventilation problems – check filters not saturated & change
- Machine alarm requiring check at 72 hours – warning will persist until machine check, but will **not** disable machine!

Use combined **HME/filter** here, remember to add inline suction

Use red **filter** at expiratory port

Check water trap and empty if > half full

Suggested Tidal volumes		
PBW (kg)	**6ml/kg (mls)**	**8ml/kg (mls)**
50	300	400
55	330	440
60	360	480
65	390	520
70	420	560
75	450	600
80	480	640
85	510	680
90	540	720

Predicted Body Weight (PBW) (height in cm):

Male	**Female**
[(Height – 152)x0.9] + 50	[(Height – 152)x0.9] +45