

# Hamilton T1 Ventilator

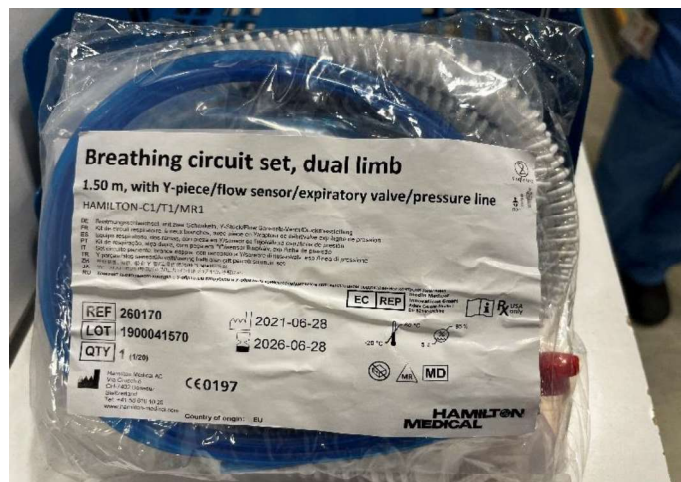
## Neonatal and Paediatric Quick Start Guide

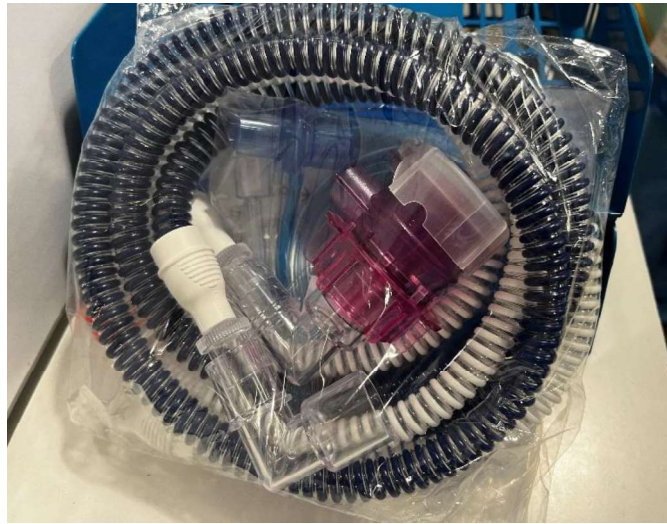
### For ventilation of patients up to 10kg

## Equipment Required



- Hamilton T1 with neonatal programming - To identify if it has neonatal capabilities, turn on and the option for both Neonate and Adult/Paed's should be present. If only adult/paed's, the ventilator does not have the programming for neonates
- Paediatric Breathing circuit with Flow sensor/spirometry tubing – pink expiratory valve





## Setup

- **Paediatric circuit and flow tubing**

Attach the paediatric circuit. The inspiratory and expiratory connections of the circuit are interchangeable

Attach flow/spirometry tubing - blue to blue and clear to white



Ensure T1 plugged into oxygen supply

Select neonatal option on the screen menu

Enter the patient's weight in Kg



## **Calibrating the Circuit / Pre op checks** (different from setting up adult circuit)

1. For flow sensor check - The plastic tubing shown in picture is essential to calibrate the flow sensor - do not throw away
2. To calibrate the flow sensor connect the paediatric circuit to the flow sensor and calibration device 1st
3. Follow instructions. When it asks to reverse flow sensor - rearrange as in 2nd picture
4. Once calibrated remove calibration device



**Once passed checks - able to start ventilating**  
**(Remember to do tightness check)**

## **Common issues - Trouble shooting:**

1. Leak test fail - check the expiratory valve seated properly - may not be in properly - there is a micro switch that must be activated by the valve and if this isn't sitting correctly it will not recognise the expiratory valve.
2. Ensure diaphragm of the expiratory valve still attached
3. Ensure flow sensor tubing correctly attached - blue to blue and clear to white (if wrong way round calibration will fail)
4. Remember that with small babies use appropriately sized HME filter, to reduce the dead space and improve ventilation.

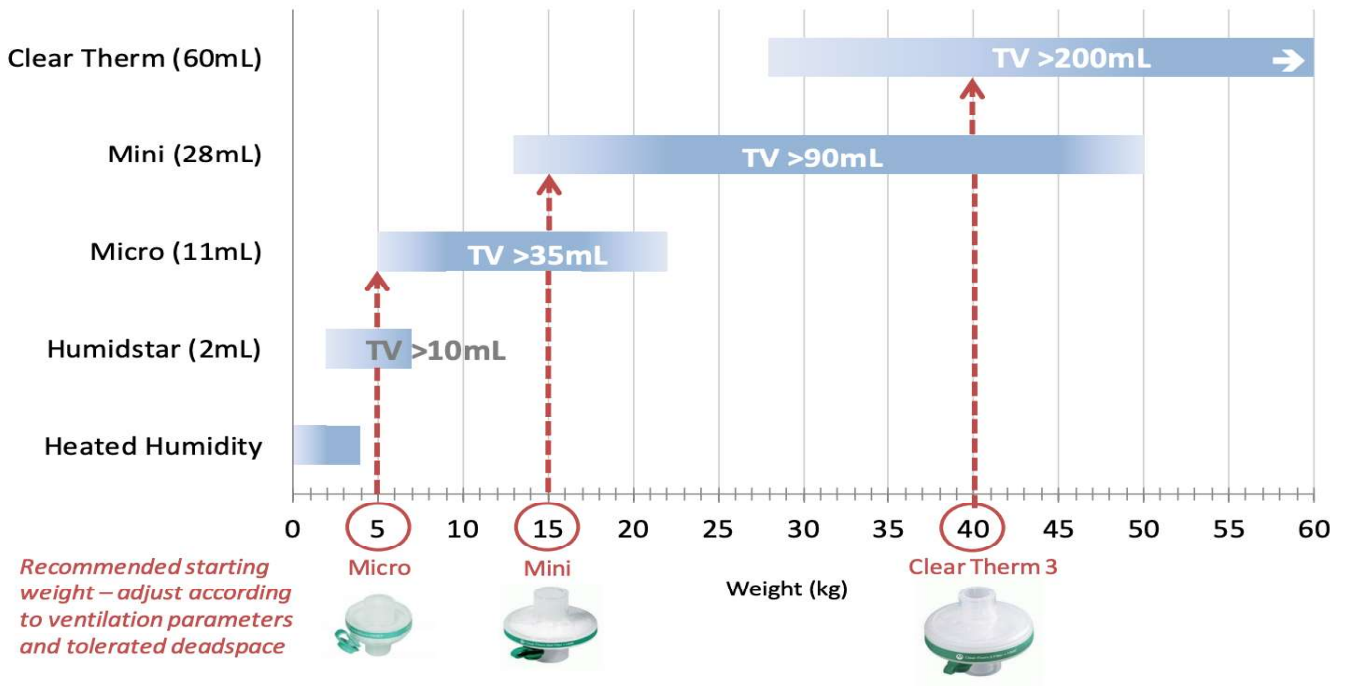
## Selecting the correct kit:

Weight of patient	Expiratory valve	Breathing circuit	Flow sensor
0.2kg - 10kg	Neonatal (PINK)	Neonatal/Paediatric	In Kit
>10 kg - 20 kg	Adult/Paediatric	Neonatal/Paediatric	In adult circuit pack
>20kg	Adult /Paediatric	Adult	In adult circuit pack

## Choosing an HME for a Patient Weight and Tidal Volume

HME name (dead-space)

Recommended weight range based on 5-7 mL/kg



Information Taken from Hamilton T1 Instructions and product guidelines