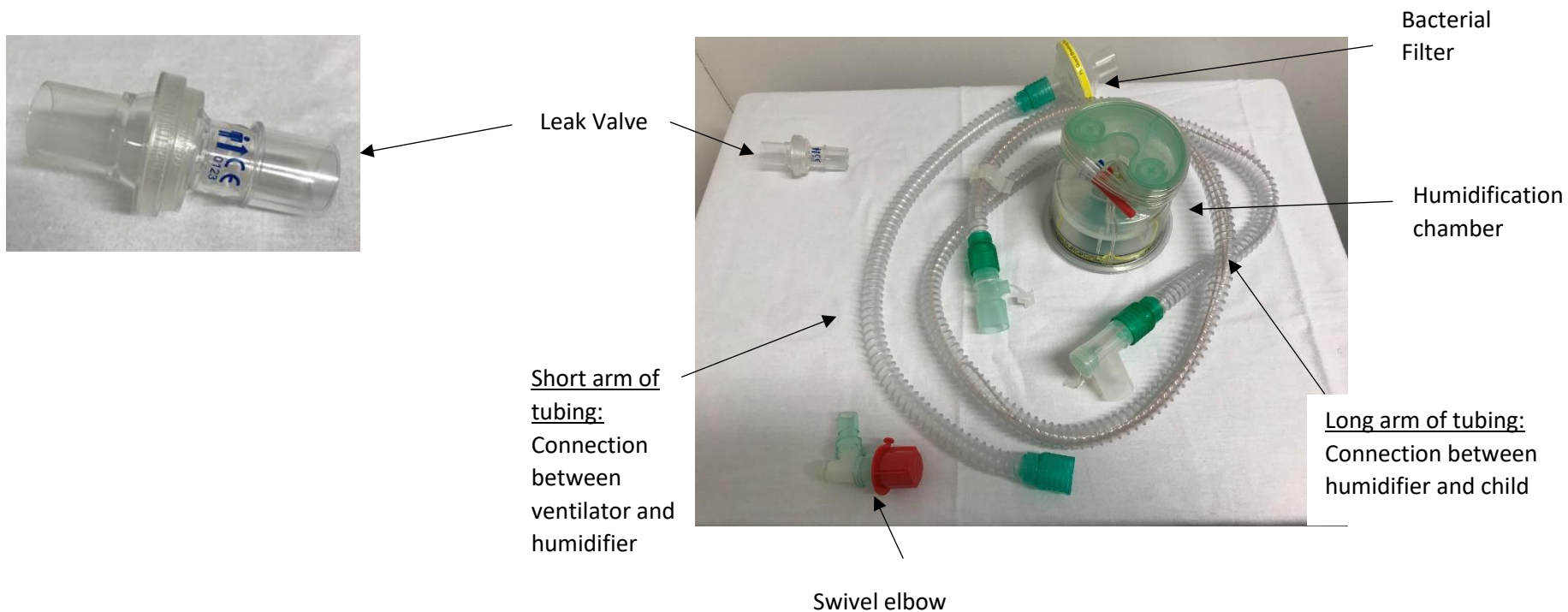


Astral 150 Circuit Set Up

Wet Circuit for tracheostomy ventilation for children

For circuits for the Astral 150 the circuit, humidification chamber, swivel elbow and bacterial filter will come in one pack. The leak valve is a separate item. The ventilator tubing can be 15mm (clear) or 22mm (green in colour) in diameter dependent on the weight of the child; but this does not alter the set up as outlined below.

NB: The leak valve MUST be in the circuit BEFORE commencing ventilation. The circuit must not be used without a leak valve in place.





- Attach the bacterial filter to the ventilator. It should go between the machine and the short limb of the circuit.



- Connect short limb of the ventilator tubing between the bacterial filter and the humidification chamber
- The humidifier must sit **BELOW** or **IN LINE** with the ventilator
- This stops water from the humidifier running back towards the ventilator.



- The heating wire connectors and the ports on the humidifier base are colour coded.
- Match the yellow wire to the yellow port.
- Match the blue wire to the blue port.

- The ventilator tubing is the 22mm short limb and attaches to the humidification chamber.



- Connect the cloverleaf shaped wire to the base of the long arm of the ventilator tubing



- The T-shaped connector on the heating wires connects at the base of the tubing



- The final connector on the heating wires connects to the patient end of the ventilator tubing by the leak valve

The long arm of ventilator tubing then connects to the patient interface which should be set up as shown below

Swivel Elbow



22mm connector and heating cable

Long arm of Ventilator tubing

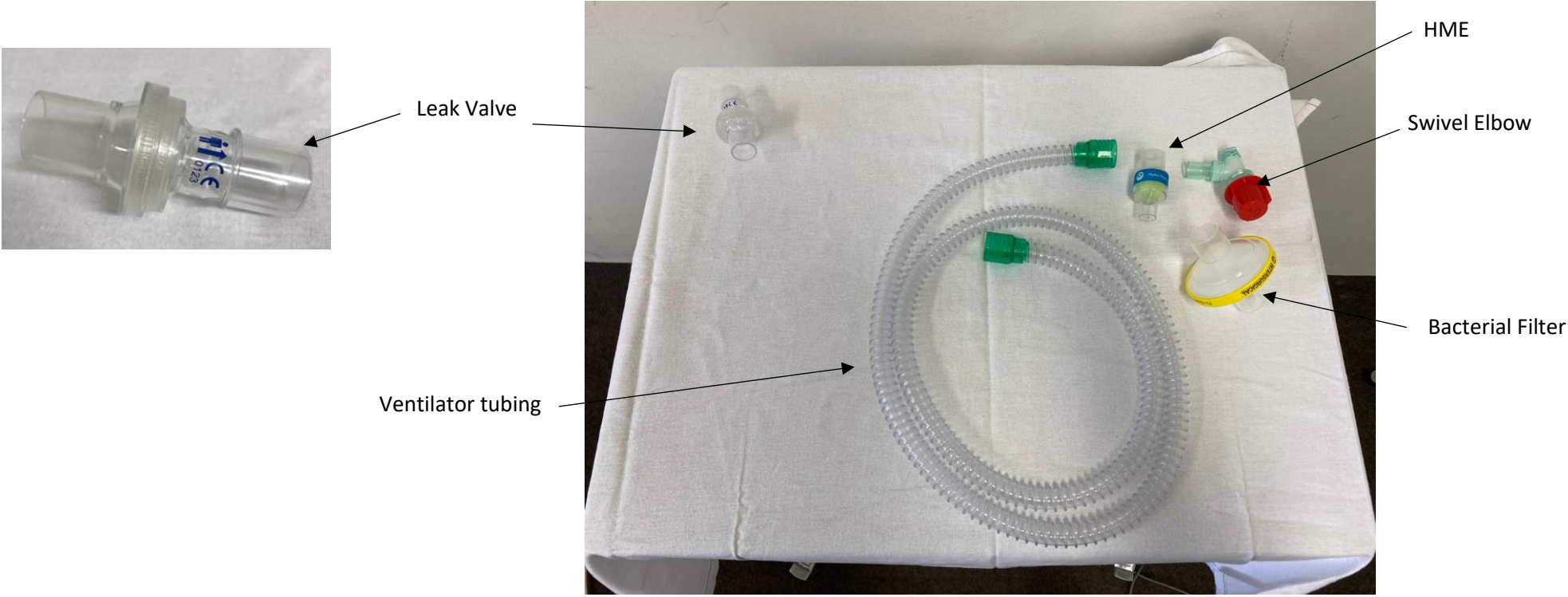
Leak Valve

NB: The leak valve MUST be in the circuit BEFORE commencing ventilation. The circuit must not be used without a leak valve in place.

Dry Circuit Set-up for Astral 150

For circuits for the Astral 150 the circuit, HME, swivel elbow and bacterial filter will come in one pack. The leak valve is a separate item. The circuit used is a 15mm circuit irrespective of the child's weight

NB: The leak valve MUST be in the circuit BEFORE commencing ventilation. The circuit must not be used without a leak value in place





- Attach the bacterial filter to the ventilator. It should go between the machine and the ventilator tubing
- The bacterial filter connects directly to the single ventilator circuit in this set-up.

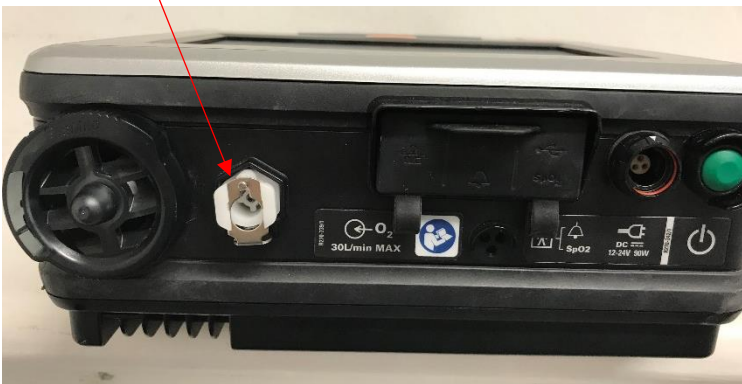


- The patient interface should be connected to the tubing as in the image above

How to entrain oxygen when using the Astral 150

When using the Astral you do not add oxygen to the circuit. It is added through the ventilator via a dedicated port at the back of the ventilator using an additional adaptor.

Oxygen Port



The additional adaptor for oxygen to be safely connected (can be metal or white plastic)

When not in use the oxygen adaptor should either be:

- removed
- remain connected to the oxygen tubing **and** flow metre, with the flow metre switched off.

If the adaptor is left connected with no oxygen tubing dust can get inside the ventilator potentially causing damage to the internal mechanism.

It should always appear as either of the 2 images below.

Oxygen tubing connected AND connected to flow metre



Oxygen adaptor disconnected

