# HIGH FLOW NASAL CANNULA THERAPY

Therapy Overview

The main effect of delivering high flow oxygen through a nasal cannula is to continuously flush out the nasopharyngeal dead space, allowing better CO_2 clearance and improving alveolar ventilation and oxygenation.

A non-disposable valve needs to be placed in the expiratory port.

Nothing will be connected to this during treatment, and it will be removed and cleaned after use ready for the next patient.

Use the small valve in neonatal mode for flow rates: 2-12LPM

Use the large valve in paed/adult mode for flow rates: 2-80LPM
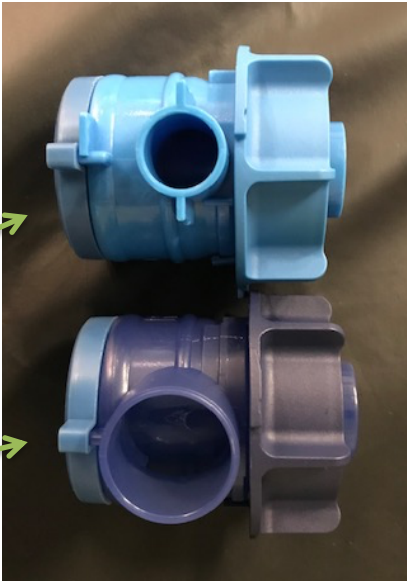
(Note that the maximum for the adult nasal cannula is 50LPM).

Circuit Selection

There are two circuits to choose from:

Junior Circuit – RT331

For use with Premature, Neonatal, Infant and Paediatric nasal cannula

Small Adult Circuit – RT202

For use with Small Adult nasal cannula

The humidifier will be secured onto the trolley next to the Hamilton to ensure the tubing will reach as shown below:

Circuit Set-Up

1.

Attach the short tubing to the inspiratory port of the ventilator

Place the right size non-disposable valve in the expiratory port

2.

Attach the other end of the tubing to one of the ports on top of the humidifier

3.

Attach the long tubing to the other port on the top of the humidifier. It must be set to **invasive mode**. To select this, press and hold the button until the invasive picture is lit (see below).
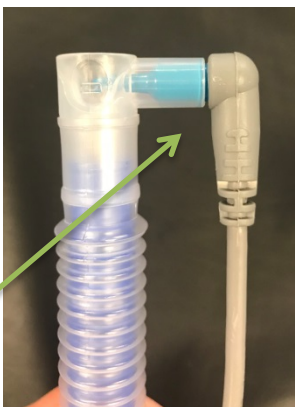

4.

Plug both heater cables into the side of the humidifier (blue to blue, yellow to yellow).

Plug in each of the humidifier sensors into their corresponding ports, ensuring they are pushed all the way in.
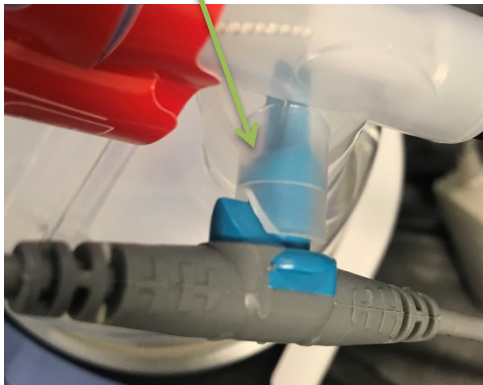
Selecting and connecting your Nasal Cannula

The nasal cannula should only occlude 50-75% of the nares. It should not block them off completely. The flow rates also differ between cannula size (see below).

NEONATAL 🐝
Flow range: **5–8** L/min
Prong Size*: 3.2mm ●

PREMATURE 🐞
Flow range: **5–8** L/min
Prong size*: 3.0mm ●

INFANT 🦋
Flow range: **5–20** L/min
Prong size*: 4.0mm ●

PAEDIATRIC † 🐦
Flow range: **5–25** L/min
Prong size*: 4.2mm ●

SMALL ADULT
Flow range: **10– 50** L/min
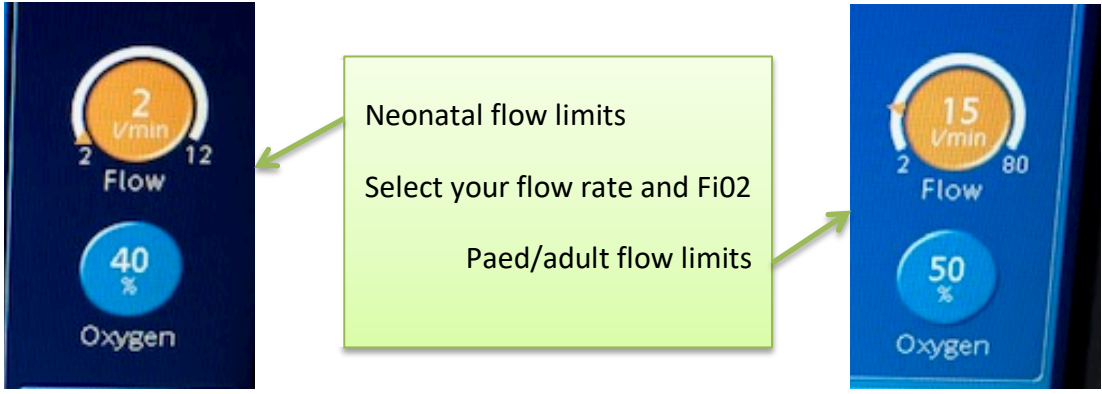Prong size: 5mm x 6 mm ●

Both circuit sizes simply push-connect to the appropriate size nasal cannula:
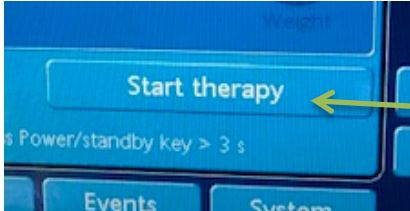
Setting the Ventilator

The settings options will be the same whether you are in neonatal or adult/paed mod. The only difference is that the flow has an upper limit of 15LPM in neonatal mode.

1.

Select the Modes tab

Select HiFlow02

2.

Neonatal flow limits

Select your flow rate and Fi02

Paed/adult flow limits

3.

Select Start therapy to initiate high flow to the patient