



Indications for Use

- Neonate with respiratory distress.
- Head circumference ≤ 39 cm and age ≤ 2 months.
- Has stabilized on CPAP via NeoPuff.
- Must have a respiratory rate (NO apnea).
- Anticipated prolonged need for CPAP at YKHC due to weather, NNP team unavailable for transport, etc.
- Note: If newborn <26 weeks, discuss with NICU prior to use.

Note: If using on a non-newborn, must request NNP/ neonatal transport team to ensure level of support can be maintained during transport.

Mask/Bonnet Set-Up

1. Measure the head circumference with the tape provided to determine the correct bonnet size.
2. Place the bonnet on the baby's head. Make sure to cover the bottom of the ears and the back of neck.
3. Mount the mask on the tubing.
4. Attach the fixation pillow to the hat, secure the tubes in the grooves, and secure with Velcro.
5. Use the fixation straps to hold the mask in place.
6. To hold optimal pressure, try to keep the infant's mouth closed. May offer a pacifier with Sweet-Ease.



Ventilator Settings

1. While in standby, select the neonatal option. Then select "Modes."



2. Enter the patient's weight.

3. Select nCPAP mode and "Confirm."



4. Adjust PEEP and FiO_2 and then select "Confirm."

5. Select "Start Ventilation."

See the YKHC [Neonatal Resuscitation Summary](#) for weight-based drug doses and equipment.



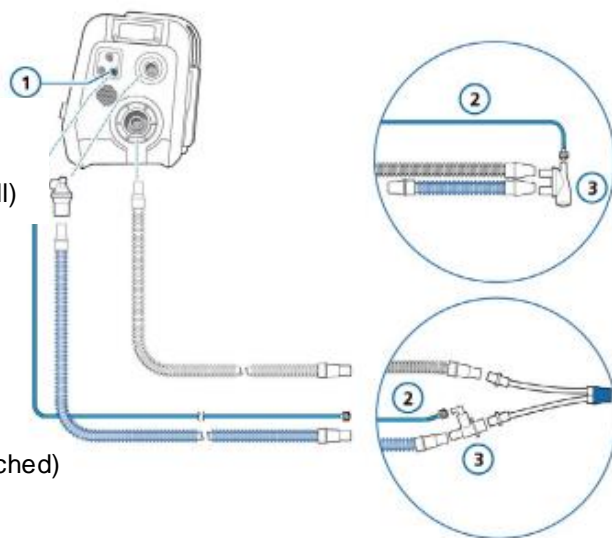
Tubing Set-Up



Hamilton ventilator

Inspiratory limb (white)
Expiratory limb (blue)
Pressure sensor (blue, small)

Humidifier (sterile saline bag attached)



Troubleshooting Tips

Ventilator Settings:

- Start by matching the PEEP level infant stabilized on with the NeoPuff, generally 5-8 cm H₂O.
- Adjust settings as needed. If FiO₂ <40%, consider weaning PEEP. If requiring >8 cm H₂O, discuss with neonatologist.

Tubing Set-Up:

- Try to maintain tubing proximal to infant parallel with the infant's face and midline.
- Ensure there is no tension on the tubing.

Bonnet:

- Choose the smallest bonnet you can fit on the baby. A snug fit will hold everything in place.
- Ensure velcro is not rubbing against the baby's skin.

Mask:

- Avoid overtightening but ensure good seal.
- If requiring nasal CPAP >6 hours, watch closely for skin breakdown and consider alternating mask with prong interface.

