



## High Flow Nasal Cannula Quick Reference

### Indications for use:

**Pediatrics:** Mild to moderate respiratory distress (sx but not limited to: flaring, grunting, retractions, bronchiolitis, tachypnea, RSV, pneumonia, increased O2 requirement)

**Adults:** Mild to moderate respiratory distress s/s but not limited to: increased need for O2, mild increased work of breathing not requiring NIV, tachypnea, pneumonia, COVID.

### VENT HFNC LIMITS:

2-60 LPM

21-100% FiO2

Oxygenation issue → increase FiO2

Ventilation/work of breathing → increase flow

### STARTING ADULT:

30 LPM

FiO2: 30%

### STARTING NEO/PED:

1-2 LPM/KG

Neo/ Ped LPM not to exceed adult dose without physician orders

H900 Circuit Selection: **Neo/Ped**= 1-15 kg; **Ped/Adult**= >10kg

### NuFlow Cannula Size Chart (Neo/Ped)

Size	Small	Medium	Large	Xlarge
Patient Group	Premature	Newborn	Infant	Children
Min Flow	1 L/Min	1 L/Min	1 L/Min	1 L/Min
Max Flow	10 L/Min	14 L/Min	23 L/Min	27 L/Min
Prong Outer Diameter	2.3 mm	2.7 mm	3.2 mm	3.7 mm
Septum Distance	3.7 mm	4.3 mm	4.8 mm	5.3 mm
Fixation Patch Size	Small	Small	Large	Large

### OptiFlow+ Size Chart (Ped/Adult)

Size	Small	Medium	Large
Min Flow	10 L/Min	10 L/Min	10 L/Min
Max Flow	50 L/Min	60 L/Min	60 L/Min

H900 Circuit Flow Rates: **Neo/Ped**= 1 - 30l/min; **Adult**= 4 - 120 l/min

**Nare Occlusion Goal 50% or less**

## Quick Set Up:

Soft goods needed: reservoir with tubing, inhalation water, nasal cannula

### Steps:

1. Turn on vent, plug in H900 and turn on (ensure HiFlow Auto mode)
2. Fill water reservoir with inhalation water
3. Plug reservoir tubing into inspiratory port on vent
4. Input pt info into vent (M/F, height) then select mode → **HiFlowO2**.
5. Determine appropriate settings with physician consult if needed
6. Place cannula on patient and start ventilator
7. Complete O2 calculations

### OXYGEN CALCULATIONS:

-O2 Consumption: Flow X FiO2 (as decimal)=LPM

-Tank PSI-200= usable PSI

-Usable PSI x coefficient (1.56 for Lear and KA)= liters available

(remember you have multiple tanks)

## Things you won't see:

- No "Disconnect" alarm
- No "Apnea" alarm
- No "manual breath"
- No "Suction maneuver"
- Most monitoring values are "off"
- ETCO2 n/a

Liters available

LPM x % FiO2

= Minutes of oxygen

## Display and circuit overview

### Humidifier display

- 1 Current chamber exit temperature
- 2 Chamber exit temperature slider
- 3 Temperature gradient slider
- 4 Ventilator connection enabled
- 5 Mode symbols

### Adjust the temperature gradient

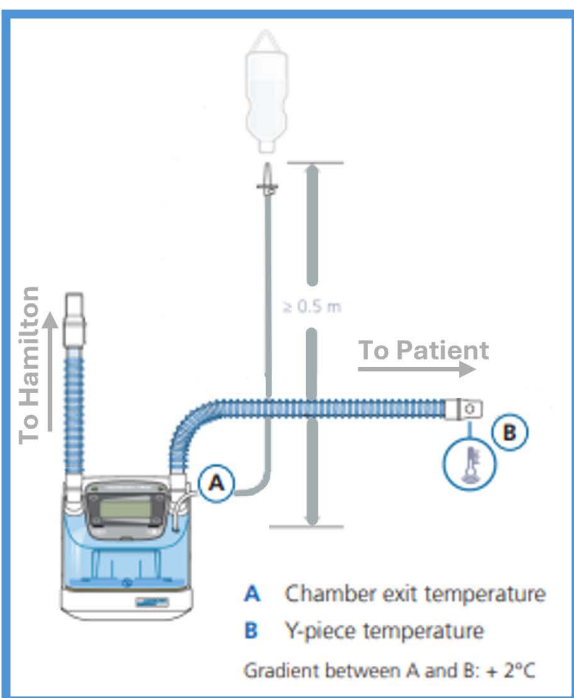
Temperature difference between water chamber and Y-piece

- ▶ Touch the temperature gradient slider at the current setting\*. Auto mode is deactivated.
- ▶ Drag right to decrease the temperature gradient
- ▶ Drag left to increase the temperature gradient
- ▶ Release to apply setting

### Adjust the chamber exit temperature

Water chamber exit temperature

- ▶ Touch the chamber exit temperature slider at the current setting\*. Auto mode is deactivated.
- ▶ Drag left to decrease the chamber exit temperature
- ▶ Drag right to increase the chamber exit temperature
- ▶ Release to apply setting



\* For illustration purposes, shown as the green zone above/below the associated setting

See the HAMILTON-H900 Instructions for use for detailed information.