

Delivery Device		Sizing Guide	Humidification	Air entrainment device	Flow rate
Nasal Prong	Nasal prong without humidification	<ul style="list-style-type: none"> • Infant • Paediatric • Adult 	No	No	<ul style="list-style-type: none"> • Children < 2 years <ul style="list-style-type: none"> ○ Min 0.125 LPM ○ Max 2 LPM • Children > 2 years <ul style="list-style-type: none"> ○ Min 0.125 LPM ○ Max 4 LPM
	Nasal prong with humidification	<ul style="list-style-type: none"> • Optiflow Junior <ul style="list-style-type: none"> ○ Premature ○ Neonatal ○ Infant ○ Paediatric • Optiflow ?Standard <ul style="list-style-type: none"> ○ Small ○ Medium ○ Large <p>See appendix A – Paediatric sizing guides for nasal prongs</p>	Yes <ul style="list-style-type: none"> • MR850 humidifier set on invasive mode • AIRVO 2 Junior prongs humidifier set on 34 degrees Celsius • AIRVO 2 Adult prongs humidifier set on 34-37 degrees Celsius 	No	<p>Follow manufacturer’s instructions with regards to flow rates.</p> <p>High flow in approved areas only. Consult your NUM if unsure.</p> <p>Patients requiring FiO₂ > 50% require a medical review and close monitoring. Attain a PICU review there is no clinical improvement after one hour.</p>
Face mask	Simple semi-rigid mask	<ul style="list-style-type: none"> • Paediatric • Adult 	No	No <ul style="list-style-type: none"> • Min 4 LPM • Max 15 LPM 	<p>Approximate guide to oxygen concentration:</p> <ul style="list-style-type: none"> • 5-6 LPM = 35-50% • 6-10 LPM = 50-60% • 10-12 LPM =60-65%
	Non-rebreather face mask with reservoir bag		No	No	<p>Ensure the flow from the wall to the mask is adequate to maintain a fully inflated reservoir bag during the whole respiratory cycle (i.e. inspiration and expiration). Should not be used outside Emergency Department & Rosella.</p>
	Nebuliser semi-rigid mask with entrainment device **Also refers to tracheostomy mask	<ul style="list-style-type: none"> • Infant • Paediatric • Adult 	Yes	Yes (with MR850 humidifier)	<p>Flow meter set to:</p> <ul style="list-style-type: none"> • Min 4 LPM • Max 15 LPM <p>Follow manufacturer’s recommendations (on the air entrainment device) for appropriate flow rates to deliver a specific FiO₂. Useful for accurately delivering low concentrations of oxygen (28-50%). Will deliver total flow to patient approximately 45 LPM.</p>
	Nebuliser semi-rigid mask with AIRVO 2 Humidifier	<ul style="list-style-type: none"> • Infant • Paediatric • Adult 	Yes Humidifier set on 31, 34, or 37 degrees Celsius (as tolerated) on AIRVO 2 Humidifier	No	<p>Flow rate should be set to exceed patients entire ventilator demand (ie. Higher than tidal volume * respiratory rate).</p> <p>Patients requiring FiO₂ > 50% requires a medical review and close monitoring. Attain a PICU review there is no clinical improvement after one hour.</p>

Tracheostomy	Tracheostomy HME & oxygen connector		No	No	Min 0.125 LPM Max 4 LPM
	Tracheostomy semi-rigid mask	<ul style="list-style-type: none"> Paediatric Adult 	Yes MR850 Humidifier set on invasive mode	No	Flow meter set to: <ul style="list-style-type: none"> Min 4 LPM Max 15 LPM
	Tracheostomy semi-rigid mask with entrainment device	<ul style="list-style-type: none"> Paediatric Adult 	Yes MR850 Humidifier set on invasive mode	Yes	Flow meter set to: <ul style="list-style-type: none"> Min 4 LPM Max 15 LPM <p>Follow manufacturer's recommendations (on the Air entrainment device) for appropriate flow rates to deliver a specific FiO₂. Useful for accurately delivering low concentrations of oxygen (28-50%). Will deliver total flow to patient approximately 45 LPM.</p>
	Tracheostomy with direct connection with AIRVO 2 Humidifier		Yes AIRVO 2 Humidifier set to 37 degrees Celsius	No	Flow rate should be set to exceed patients entire ventilator demand (ie. Higher than Tidal Volume * Respiratory Rate). Patients requiring FiO ₂ > 50% requires a medical review and close monitoring. Attain a PICU review there is no clinical improvement after one hour.