

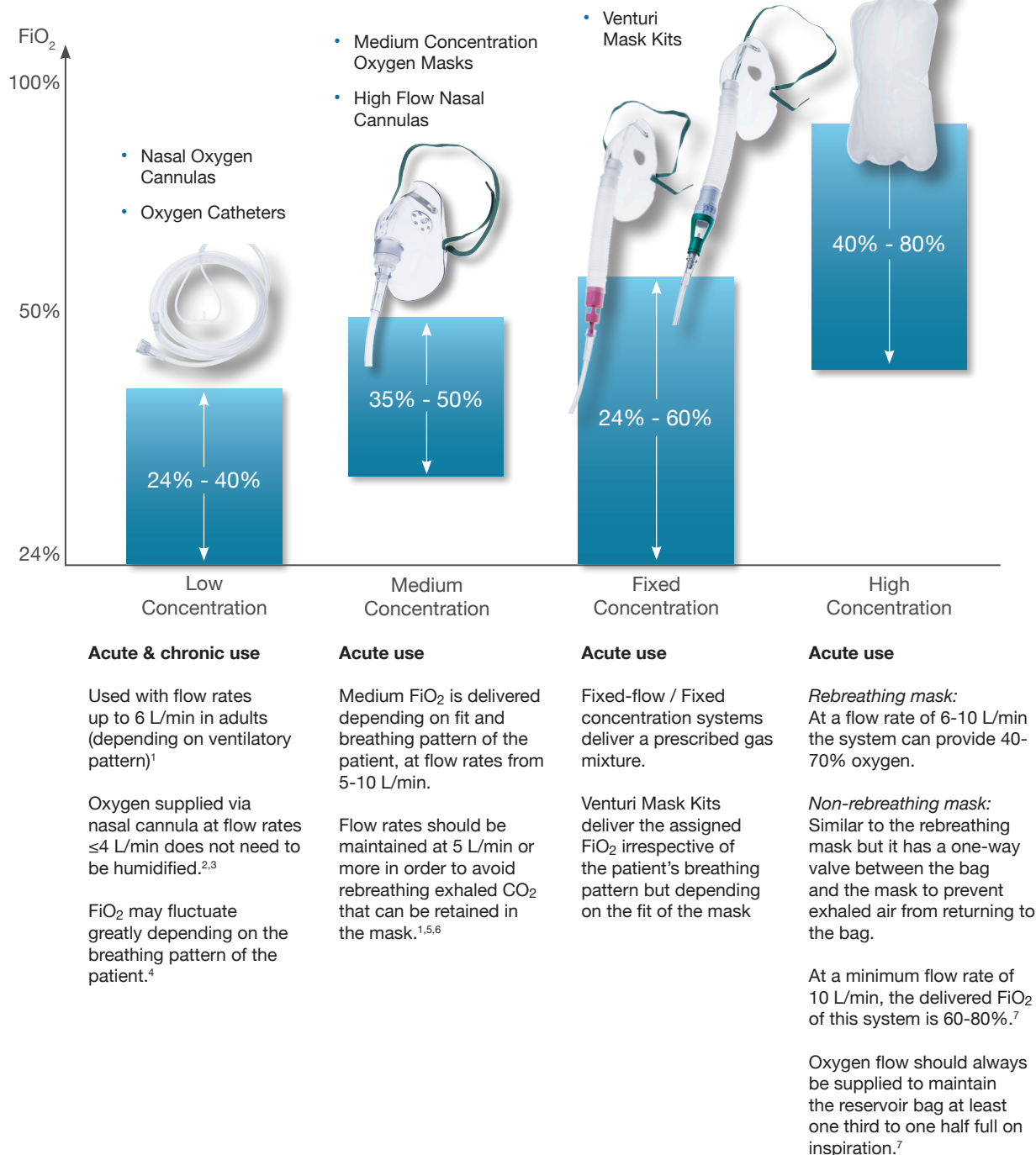
Unomedical Oxygen Delivery System

Different disease patterns and different types of applications require different levels of oxygenation.

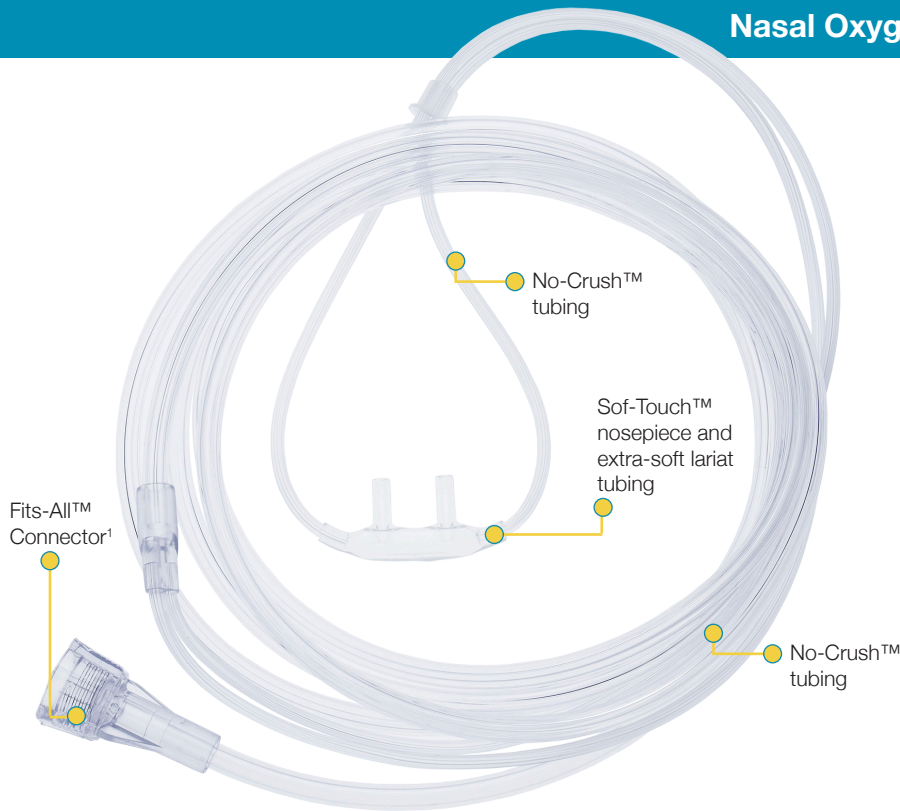
The Unomedical Oxygen Delivery System represents a complete range of products to meet virtually any situation, where oxygen supply is required.

The guide below illustrates the level of oxygenation which can be achieved by the different devices and moreover provides information about flow rates.

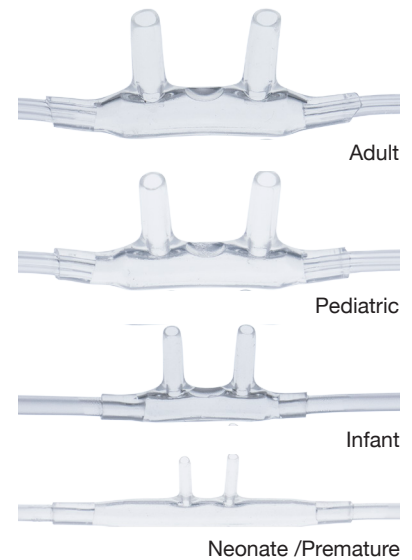
- High Concentration Oxygen Masks
- Rebreather Masks
- Non-Rebreather Masks



¹Fulmer JD, Snider GL. ACCP-NHLBI National Conference on Oxygen Therapy. Chest 1984;86(2):234-247. Concurrent publication in Respir Care 1984;29(9):922-935. ²Estey W. Subjective effects of dry versus humidified low-flow oxygen. Respir Care 1980;25(11):1143-1144. ³Campbell EJ, Baker MD, Crites-Silver P. Subjective effects of humidification of oxygen for delivery by nasal cannula: a prospective study. Chest 1988;93(2):289-293. ⁴Bazuaye EA, Stone TN, Corris PA, Gibson GJ. Variability of inspired oxygen concentration with nasal cannulas. Thorax 1992;47(8):609-611. ⁵Reinartz JA, Pierce AK, Mays BB, Sanford JP. The potential role of inhalation therapy equipment in nosocomial pulmonary infections. J Clin Invest 1965; 44:831-839. ⁶Jensen AG, Johnson A, Sandstedt S. Rebreathing during oxygen treatment with face mask: the effect of oxygen flow rates on ventilation. Acta Anaesthesiol Scand 1991;35(4):289-292. ⁷AARC GUIDELINE: OXYGEN THERAPY FOR ADULTS IN THE ACUTE CARE FACILITY, RESPIRATORY CARE JUNE 2002 VOL47 NO6



Sof-Touch™ Cannula tip range



Unomedical Sof-Touch™ Cannulas

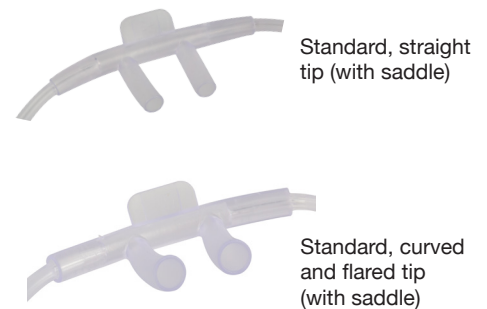
Specially moulded extra-soft and flexible nasal oxygen cannulas.

The renowned Sof-Touch™ cannula design has been refined by extending the softness of the nosepiece to the lariat tubing, which has in addition also been equipped with No-Crush™ lumen, providing advanced patient comfort and reliability.

All products are made from clear, discrete 100% DEHP/ Phthalate- and Latex-free materials and are equipped with a Fits-All™ Connector, for connection to an oxygen nipple/fir-tree or directly to a flow meter screw eliminating the need for adaptors.

A comprehensive range, including neonatal size, is available in multiple variations.

Standard Cannula tip range



Oxygen Catheters

Wide range of sterile mono-nasal oxygen catheters available in four sizes (CH 8,10,12,14) and 3 tip variants.

- Blue colored material helps preventing mix-up with naso-gastric tubes
- Soft rounded distal tips



with compress
- fixed
- movable

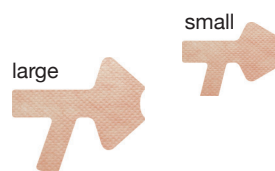


plain, with 8 holes

Naso-Fix™ Securement Tape

Optimal for fixation of Oxygen Catheters

- Prevents displacement
- Skin friendly fixation at optimum angle
- Skin coloured, discrete appearance
- Available in 3 different sizes



¹Products are also available with standard oxygen connector

MAC-Safe™ End-tidal CO₂ Sampling Cannula



The MAC-Safe™ nasal oxygen cannula is designed to provide oxygen whilst simultaneously monitoring end-tidal carbon-dioxide (etCO₂), for monitoring of non-intubated patients.

By lightweight, split design and its Sof-Touch™ facepiece the MAC-Safe™ nasal oxygen cannula provides undiluted sampling of CO₂ whilst providing a high degree of wearing comfort.

The No-Crush™ lumen, which has also been extended to the lariat portion, helps to provide uninterrupted, reliable gas flow.

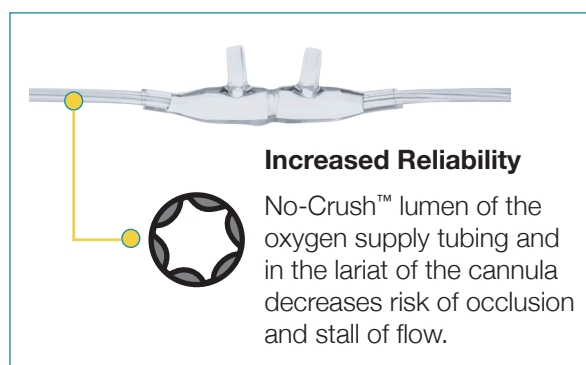
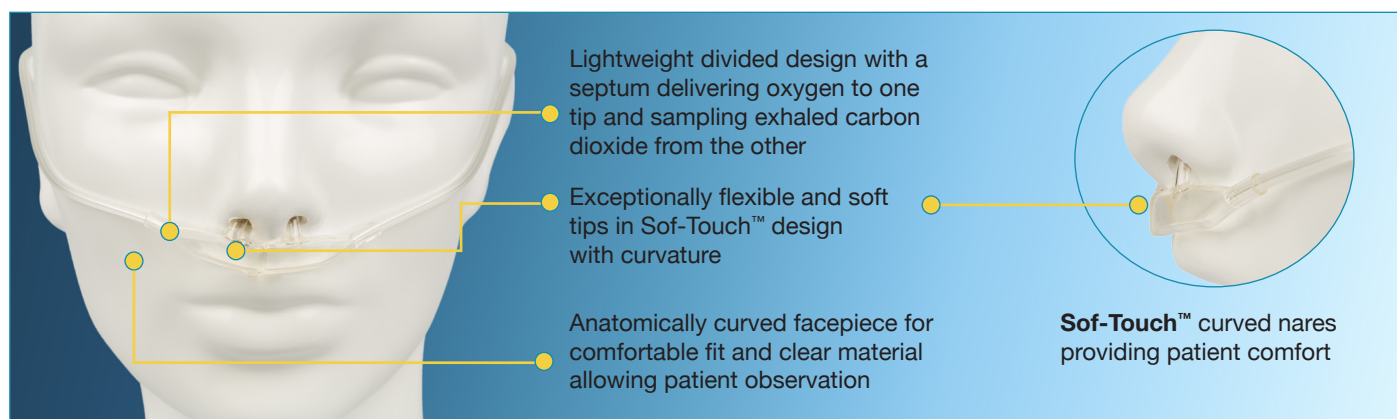
Various connection options provide universal connectivity of the device.

Luer Lock sampling port

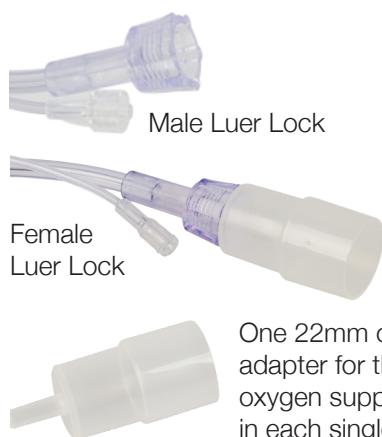
Fits-All™ Connector¹

Sof-Touch™ nosepiece and extra-soft lariat tubing

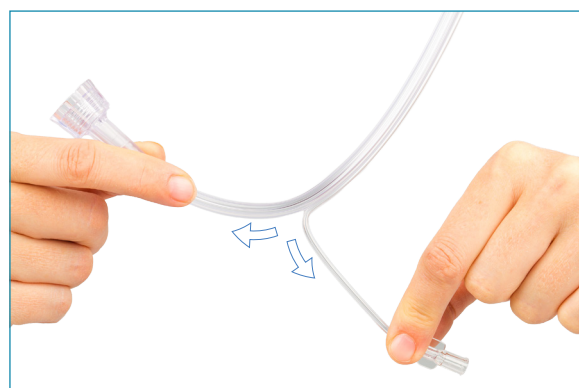
3 meters of No-Crush™ tubing



Universal connectivity



The unique “peel-off” design gas-sampling line enables full control on the tubing length, from pig-tail to full length, helping to keep lines and work space organized.



¹Products are also available with standard oxygen connector

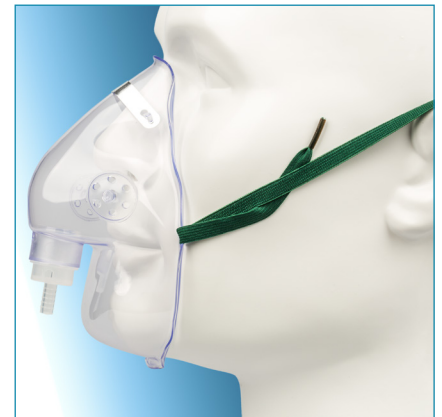


Medium Concentration Oxygen Masks

- Designed for delivering concentrations between 35 - 50%
- Use when precise control of oxygen concentration is not mandatory

Unomedical Oxygen Masks

- Soft and flexible masks with smooth finish for excellent seal and wearing comfort
- Adjustable nose clip secures comfortable fit
- Elongated under-the-chin design improves patient acceptance and compliance
- Transparent material enables observation of face colour and vital signs
- All Tubing equipped with No-Crush lumen decreasing risk of occlusion and stall of flow

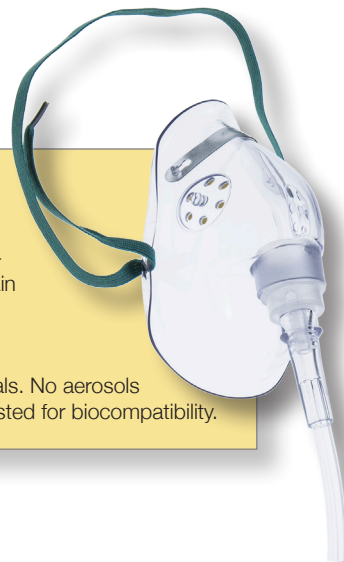


Unomedical Oxygen-and Aerosol-Masks provide excellent seal and wearing comfort

Vanilla Scented Masks

In analogy to commonly used Face Masks in Anesthesia, ConvaTec offers a range of lightly vanilla scented Oxygen- and Aerosol Masks to help improving compliance of certain patients, particularly children and elderly people, feeling unpleasant receiving oxygen via a mask on their face.

The scent is infused into the soft and flexible mask materials. No aerosols or post production perfumes are used. All materials are tested for biocompatibility.

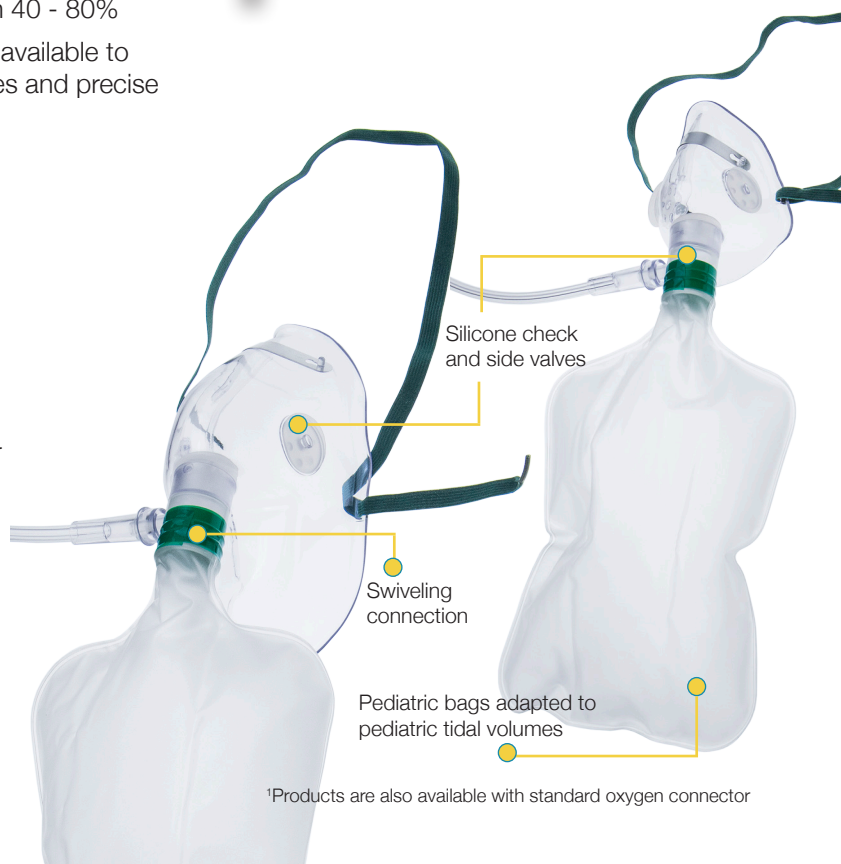


High Concentration Oxygen Masks

- Designed for delivering oxygen concentrations between 40 - 80%
- Use when an adequate amount of oxygen needs to be available to meet unpredictable breathing patterns and tidal volumes and precise control of oxygen concentration is not mandatory

Unomedical Oxygen Masks

- Soft and flexible masks with smooth finish for excellent seal and wearing comfort
- Adjustable nose clip secures comfortable fit
- Elongated under-the-chin design improves patient acceptance and compliance
- Transparent material enables observation of face colour and vital signs
- All Tubing equipped with No-Crush™ lumen decreasing risk of occlusion and stall of flow
- Swiveling connection between mask and tube/bag reduces the risk of dislocation by torque
- Equipped with Fits-All™ connector¹ for connection directly to a flow meter screw in case of emergency



¹Products are also available with standard oxygen connector

3-in-1 Emergency Masks • Aerosol Masks



3-in-1 Emergency Masks

3-in-1 emergency masks can easily be (re-) configured into a

- Medium concentration oxygen mask
- High concentration rebreathing mask
- High concentration non-rebreathing mask

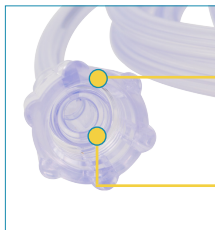
as required, for variable use for example in emergency services.

All masks are equipped with No-Crush™ Oxygen Tubing and Fits-All™ Connector¹.

Fits-All™ Universal Oxygen Connector

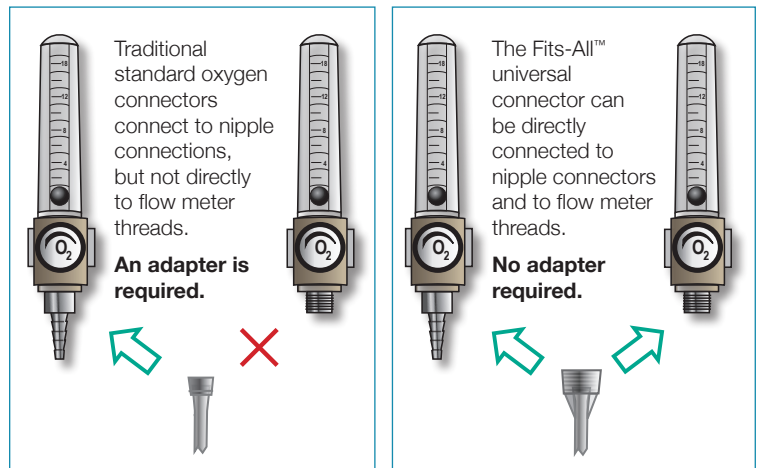
The Fits-All™ Universal Oxygen Connector provides secure connection between the oxygen supply tube and a variety of oxygen fittings commonly used in hospitals and emergency services.

- Nipple connectors or Christmas tree (fir-tree) fittings and adapters²
- Flow meter 9/16" and 1/4"-18 male threads³



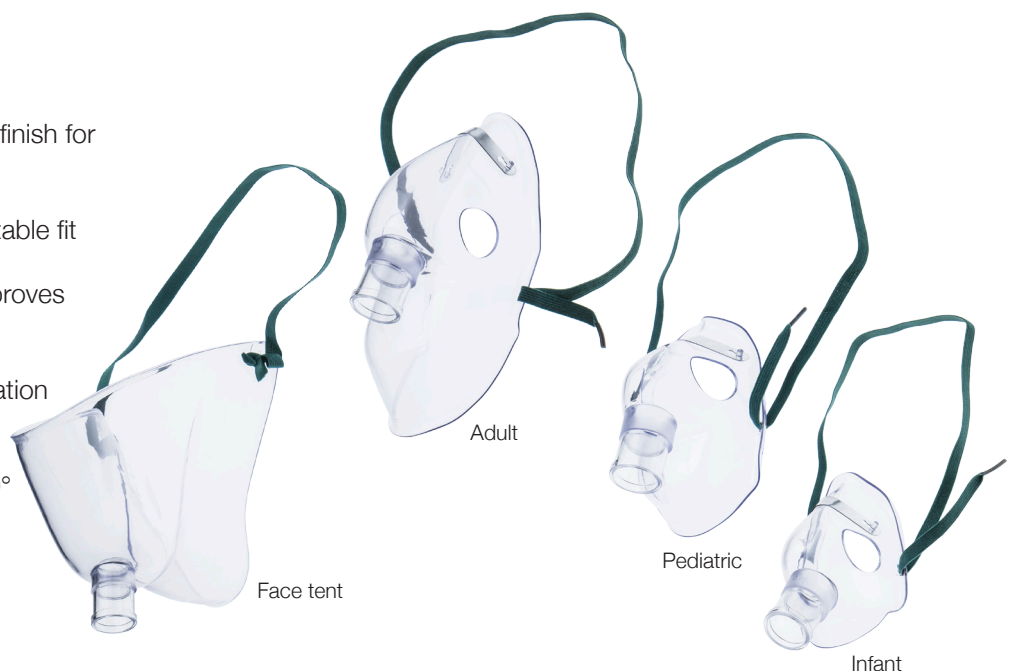
Standard oxygen connector funnel on the inside of the Fits-All™

Surrounding flow-meter screw designed to fit 9/16" and 1/4"-18 male threads



Aerosol Masks

- Soft and flexible masks with smooth finish for excellent seal and wearing comfort
- Adjustable nose clip secures comfortable fit
- Elongated under-the-chin design improves patient acceptance and compliance
- Transparent material enables observation of face colour and vital signs
- Standard aerosol connector and 360° swivel connector design available
- Optionally available with vanilla scent

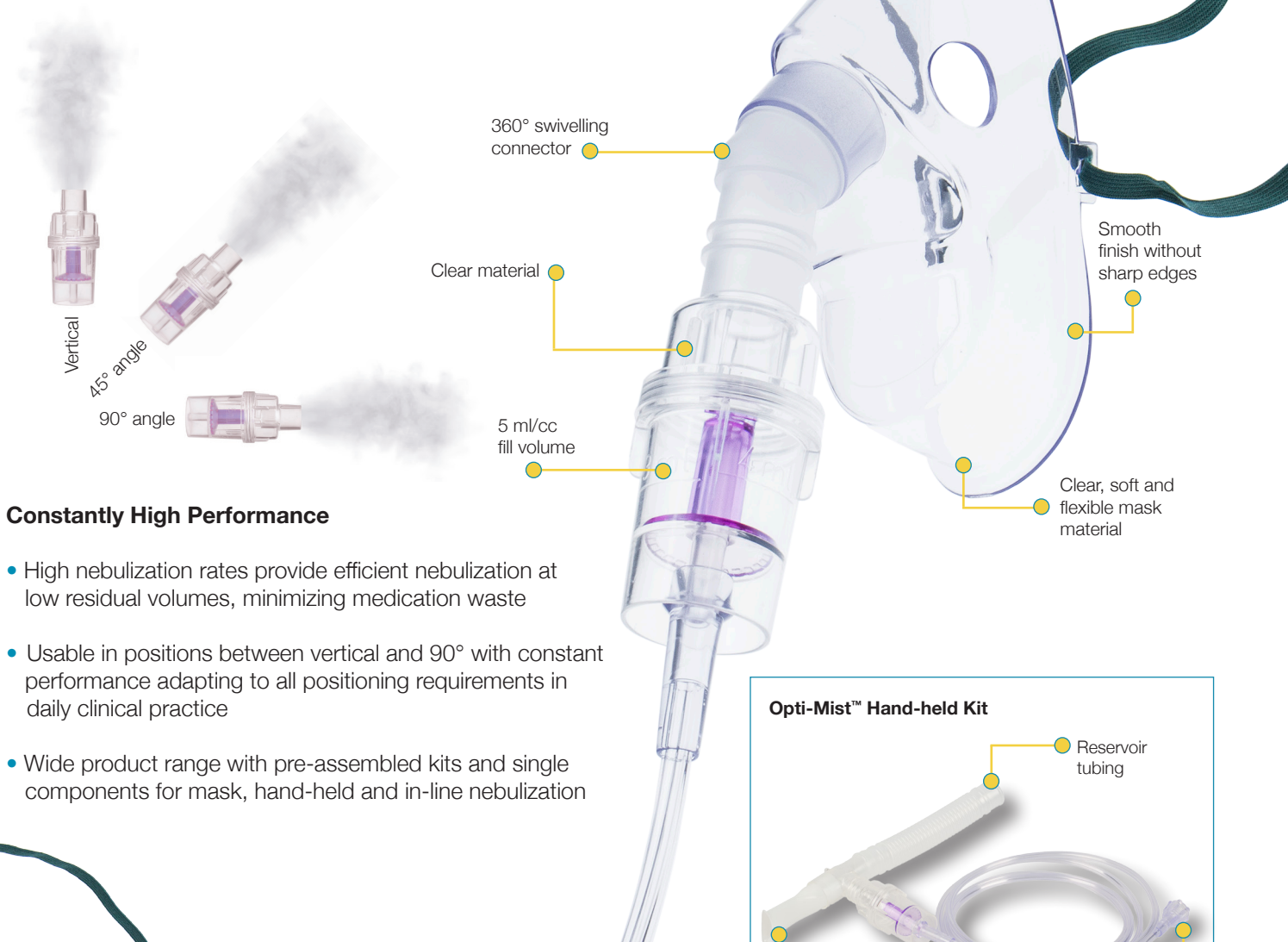


¹Products are also available with standard oxygen connector ²Tested according to ISO EN 13544-2 (Respiratory Therapy Equipment. Tubing and Connectors) ³Function Test. Data on file.



Opti-Mist™ • Tracheobronchial Nebulizer

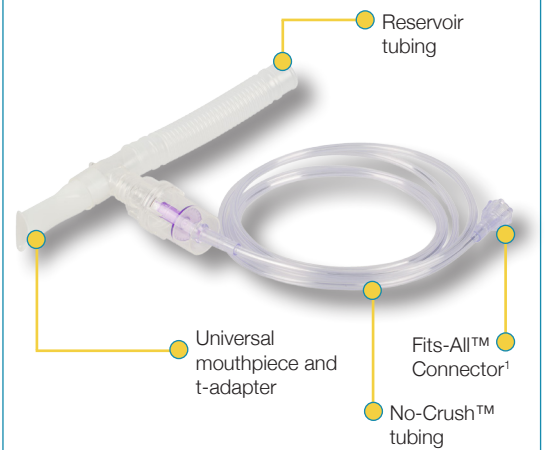
With an MMAD of 3.4 micrometers² the Opti-Mist™ nebulizer is ideal for tracheobronchial deposition of nebulized drugs. At a driving gas flow of 8 L/min more than 60% of the volume output of the Opti-Mist™ nebulizer are particles with a diameter of less than 5 micrometers.



Constantly High Performance

- High nebulization rates provide efficient nebulization at low residual volumes, minimizing medication waste
- Usable in positions between vertical and 90° with constant performance adapting to all positioning requirements in daily clinical practice
- Wide product range with pre-assembled kits and single components for mask, hand-held and in-line nebulization

Opti-Mist™ Hand-held Kit



Opti-Mist™ Ultra The Alveolar Nebulization Solution

Creating ultra-fine particles with a mass median aerodynamic diameter (MMAD) of avg. 1.2 micrometers², the Opti-Mist™ Ultra nebulizer is designed for alveolar deposition of particles.

- For alveolar-/systemic drug deposition
- Usable in positions between vertical and 90°
- Wide product range with pre-assembled kits, single components for mask and hand-held operation

Clear material

6 ml/cc fill volume

¹Products are also available with standard oxygen connector

²Average of all operation angles, at 8 LPM - data on file.

Up-Mist™ Nebulizers • Fixed Concentration Venturi Mask Kits



Up-Mist™ • Medium Volume Tracheobronchial Nebulizer

The Unomedical Up-Mist™ nebulizer has a medium sized volume of 20ml and has been especially designed for prolonged nebulization and to provide humidification during ventilation treatment. The two-piece design is easy to operate and produces aerosol of a mass median aerodynamic diameter of 3.6 microns, for mainly tracheobronchial deposition.

Fill Volume	20 ml/cc
MMAD at 6LPM	3.6 µm
Min. Aerosol Output	2.1 ml

Up-Mist™ nebulizer is available as single chamber and in multiple configurations in mask and hand-held kits.

Edge-free 2-piece design with grips for easy opening and closing

Graduation marks indicate remaining volume

20 ml/cc fill volume

Side-port

Fixed Concentration Venturi Mask Kits

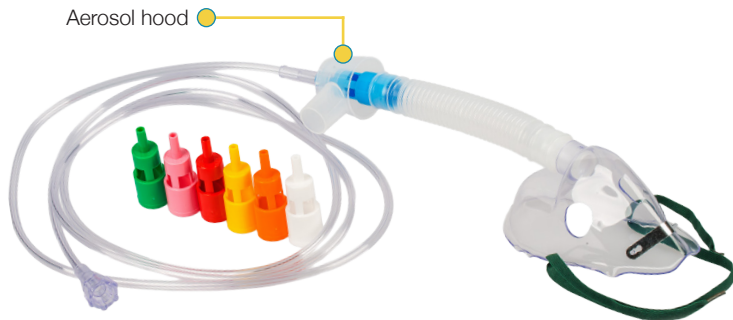
The principle of a Venturi mask is to deliver a predetermined concentration of oxygen regardless of the patient's respiratory pattern. As oxygen flows in excess of patient demands, a diluter draws in ambient air through the air-entrainment ports, creating a constant proportion of air/oxygen mixture. With gas flow constantly in excess of patient demands, rebreathing of CO₂ is almost eliminated.

Unomedical Venturi Mask Kits

- Contain a set of 7 diluters to cover all concentrations

● 4 LPM	24%	blue diluter
○ 4 LPM	28%	white diluter
● 6 LPM	31%	orange diluter
● 8 LPM	35%	yellow diluter
● 10 LPM	40%	red diluter
● 10 LPM	50%	pink diluter
● 12 LPM	60%	green diluter

Aerosol hood



Unomedical Adjustable Venturi Mask Kits

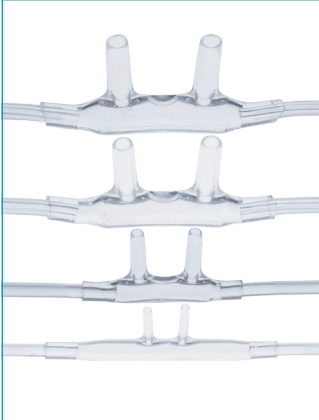




- Contain an easy to adjust variable Venturi valve providing concentrations of 24%, 26%, 28%, 31%, 35%, 40% and 50%
- Equipped with an additional aerosol hood to provide simultaneous supply of aerosolized medication or humidification
- Soft and flexible masks with smooth finish for excellent seal and wearing comfort
- Adjustable nose clip secures comfortable fit
- Elongated under-the-chin design improves patient acceptance and compliance
- Transparent material enables observation of face colour and vital signs swivel connector design available
- Optionally available with vanilla scent

Adjustable Venturi valve with concentration dial



Respiratory Care • Oxygen & Aerosol Therapy Program



	REF with Fits-All™	REF with Std connector	Item	Size	Tubing	Quantity (pcs)
	Nasal Oxygen Cannulas					
	93-305MM		Sof-Touch™ Cannula, curved	Adult	-	10/50
	93-318MM	9-318MM	Sof-Touch™ Cannula, curved	Adult	2.1m  No-Crush™	10/50
	93-319MM	9-319MM	Sof-Touch™ Cannula, curved	Adult	4.2m  No-Crush™	10/50
	93-332MM	9-332MM	Sof-Touch™ Cannula, curved	Pediatric	2.1m  No-Crush™	10/50
	93-337MM	9-337MM	Sof-Touch™ Cannula, straight	Infant	2.1m  No-Crush™	10/50
	93-338MM	9-338MM	Sof-Touch™ Cannula, straight	Neonatal	2.1m  No-Crush™	10/50
	93-314HFMM	9-314HFMM	Sof-Touch™ High Flow Cannula, curved	Adult	2.1m  No-Crush™	10/50
	93-312MM	9-312MM	Standard Cannula, straight	Adult	2.1m  No-Crush™	10/50
	93-314MM	9-314MM	Standard Cannula, straight	Adult	4.2m  No-Crush™	10/50
	MAC-Safe™ End-tidal CO2 Sampling Cannula					
	93-368MM	9-368MM	MAC-Safe™ Male Luer Lock	Adult	3.0m  No-Crush™	10/20
	93-369MM	9-369MM	MAC-Safe™ Female Luer Lock	Adult	3.0m  No-Crush™	10/20
	93-362MM	9-362MM	MAC-Safe™ Male Luer Lock	Pediatric	3.0m  No-Crush™	10/20
	Oxygen Catheters*					
		1903418x	O ₂ Catheter, Plain, male connector	CH 08	40 cm Standard	100
		1903518x	O ₂ Catheter, Plain, male connector	CH 10	40 cm Standard	100
		1903718x	O ₂ Catheter, Plain, male connector	CH 12	40 cm Standard	100
		1903818x	O ₂ Catheter, Plain, male connector	CH 14	40 cm Standard	100
		1903918x	O ₂ Catheter w.compress, male connector	CH 08	40 cm Standard	100
		1904018x	O ₂ Catheter w.compress, male connector	CH 10	40 cm Standard	100
		1904118x	O ₂ Catheter w.compress, male connector	CH 12	40 cm Standard	100
		1904218x	O ₂ Catheter w.compress, male connector	CH 14	40 cm Standard	100
		1902918x	O ₂ Catheter w.adj.compress, male connector	CH 08	40 cm Standard	100
		1903018x	O ₂ Catheter w.adj.compress, male connector	CH 10	40 cm Standard	100
		1903218x	O ₂ Catheter w.adj.compress, male connector	CH 14	40 cm Standard	100
	Medium Concentration Oxygen Masks					
	93-103MM		O ₂ Mask, Medium Concentration	Adult	-	10/50
	93-102MM	9-102MM	O ₂ Mask, Medium Concentration	Adult	2.1m  No-Crush™	10/50
	93-223MM		O ₂ Mask, Medium Concentration	Pediatric	-	10/50
	93-222MM	9-222MM	O ₂ Mask, Medium Concentration	Pediatric	2.1m  No-Crush™	10/50
	93-263MM		O ₂ Mask, Medium Concentration	Infant	-	10/50
	93-262MM	9-262MM	O ₂ Mask, Medium Concentration	Infant	2.1m  No-Crush™	10/50
	93-103MMV		O ₂ Mask, Medium Concentration, Vanilla Scent	Adult	-	10/50
	93-102MMV	9-102MMV	O ₂ Mask, Medium Concentration, Vanilla Scent	Adult	2.1m  No-Crush™	10/50
	93-1023MMV	9-1023MMV	O ₂ Mask, Medium Concentration, Vanilla Scent	Adult	3.0m  No-Crush™	10/50
	93-223MMV		O ₂ Mask, Medium Concentration, Vanilla Scent	Pediatric	-	10/50
	93-222MMV	9-222MMV	O ₂ Mask, Medium Concentration, Vanilla Scent	Pediatric	2.1m  No-Crush™	10/50





Vanilla Scent Option 



* Here noted as x, reference codes contain an additional digit (1-5) representing a language code.

Respiratory Care • Oxygen & Aerosol Therapy Program





















	REF with Fits-All™	REF with Std connector	Item	Size	Tubing	Quantity (pcs)
	High Concentration Oxygen Masks					
	93-105MM		O ₂ Mask, High Concentration, Rebreather	Adult	-	10/50
	93-109MM		O ₂ Mask, High Concentration, Non-Rebreather	Adult	-	10/50
	93-108MM	9-108MM	O ₂ Mask, High Concentration, Non-Rebreather	Adult	2.1	No-Crush™ 10/50
	93-104MM	9-104MM	O ₂ Mask, High Concentration, Rebreather	Adult	2.1	No-Crush™ 10/50
	93-225MM		O ₂ Mask, High Concentration, Rebreather	Pediatric	-	10/50
	93-224MM	9-224MM	O ₂ Mask, High Concentration, Rebreather	Pediatric	2.1	No-Crush™ 10/50
	93-230MM	9-230MM	O ₂ Mask, High Concentration, Non-Rebreather	Pediatric	2.1	No-Crush™ 10/50
	93-265MM		O ₂ Mask, High Concentration, Rebreather	Infant	-	10/50
	93-267MM		O ₂ Mask, High Concentration, Non-Rebreather	Infant	-	10/50
	93-264MM	9-264MM	O ₂ Mask, High Concentration, Rebreather	Infant	2.1	No-Crush™ 10/50
	93-266MM	9-266MM	O ₂ Mask, High Concentration, Non-Rebreather	Infant	2.1	No-Crush™ 10/50
	93-108MMV	9-108MMV	O ₂ Mask, High Conc., Non-Rebr., Vanilla Scent	Adult	2.1	No-Crush™ 10/50
	93-104MMV	9-104MMV	O ₂ Mask, High Conc., Rebr., Vanilla Scent	Adult	2.1	No-Crush™ 10/50
	3-in-1 Emergency Masks					
	93-182MM	9-182MM	3-in-1 Emergency Mask	Adult	2.1m	No-Crush™ 10/50
	93-282MM	9-282MM	3-in-1 Emergency Mask	Adult	2.1m	No-Crush™ 10/50
	93-182MMV	9-182MMV	3-in-1 Emergency Mask, Vanilla Scent	Pediatric	2.1m	No-Crush™ 10/50
	93-282MMV	9-282MMV	3-in-1 Emergency Mask, Vanilla Scent	Pediatric	2.1m	No-Crush™ 10/50
	Fixed-Concentration Venturi Masks					
	93-120MMEU	9-120MMEU	Venturi Mask Kit with all diluters	Adult	2.1m	No-Crush™ 10/50
	93-227MMEU	9-227MMEU	Venturi Mask Kit with all diluters	Pediatric	2.1m	No-Crush™ 10/50
	93-270MMEU	9-270MMEU	Venturi Mask Kit with all diluters	Infant	2.1m	No-Crush™ 10/50
	93-128MMEU	9-128MMEU	Venturi Mask Kit with 28% diluter	Adult	2.1m	No-Crush™ 10/50
	93-120AMM	9-120AMM	Venturi Mask Kit with adjustable diluter	Adult	2.1m	No-Crush™ 10/50
	93-227AMM	9-227AMM	Venturi Mask Kit with adjustable diluter	Pediatric	2.1m	No-Crush™ 10/50
	93-120MMEUV	9-120MMEUV	Venturi Mask Kit with all diluters, Vanilla Scent	Adult	2.1m	No-Crush™ 10/50
	Opti-Mist™ Nebulizers & Nebulization Kits					
	93-770MM		Nebulizer, Opti-Mist™, Chamber only	-	-	10/50
	93-771MM	9-771MM	Nebulizer Kit, Opti-Mist™, Hand-held	-	2.1m	No-Crush™ 10/50
	93-772MM	9-772MM	Nebulizer Kit, Opti-Mist™ with Mask	Adult	2.1m	No-Crush™ 10/50
	93-773MM	9-773MM	Nebulizer Kit, Opti-Mist™ with Mask	Pediatric	2.1m	No-Crush™ 10/50
	93-772MMV	9-772MMV	Nebulizer Kit, Opti-Mist™ with Mask, Vanilla Scent	Adult	2.1m	No-Crush™ 10/50
	93-773MMV	9-773MMV	Nebulizer Kit, Opti-Mist™ with Mask, Vanilla Scent	Pediatric	2.1m	No-Crush™ 10/50
	93-774MM	9-774MM	Nebulizer Kit, Opti-Mist™ with Mask	Adult	2.1m	No-Crush™ 10/50

Vanilla Scent Option ●



Respiratory Care • Oxygen & Aerosol Therapy Program



	REF with Fits-All™	REF with Std connector	Item	Size	Tubing	Quantity (pcs)
	Opti-Mist™ Ultra Nebulizers & Kits					
	93-870MM		Nebulizer, Opti-Mist™, Chamber only	-	-	10/50
	93-871MM	9-871MM	Nebulizer Kit, Opti-Mist™, Hand-held	-	2.1m 	10/50
	93-872MM	9-872MM	Nebulizer Kit, Opti-Mist™ with Mask	Adult	2.1m 	10/50
	93-873MM	9-873MM	Nebulizer Kit, Opti-Mist™ with Mask	Pediatric	2.1m 	10/50
	93-4303MM	9-4303MM	Opti-Mist™ Ultra Closed System Kit	-	2.1m 	10/50
	Up-Mist™ Nebulizers & Kits					
		93-950MM	Nebulizer, Up-Mist™, Chamber only	-	-	10/50
		93-958MM	Nebulizer Kit, Up-Mist™, Hand-held, no reservoir	-	-	10/50
	93-952MM	9-952MM	Nebulizer Kit, Up-Mist™, Hand-held, no reservoir	-	2.1m 	10/50
	93-959MM	9-959MM	Nebulizer Kit, Up-Mist™, Hand-held	-	2.1m 	10/50
	93-953MM	9-953MM	Nebulizer Kit, Up-Mist™ with Mask	Adult	2.1m 	10/50
	93-228MM	9-228MM	Nebulizer Kit, Up-Mist™ with Mask	Pediatric	2.1m 	10/50
	Aerosol Masks					
		93-100MM	Aerosol Face Mask, Elongated	Adult	-	10/50
		93-220MM	Aerosol Face Mask, Elongated	Pediatric	-	10/50
		93-100LMM	Aerosol Face Mask, Elongated w. 360° Swivel	Adult	-	10/50
		93-220LMM	Aerosol Face Mask, Elongated w. 360° Swivel	Pediatric	-	10/50
		93-260MM	Aerosol Face Mask	Infant	-	10/50
		93-100MMV	Aerosol Face Mask, Elongated, Vanilla Scent	Adult	-	10/50
		93-220MMV	Aerosol Face Mask, Elongated, Vanilla Scent	Pediatric	-	10/50
		93-245MM	Tracheostomy Mask	Adult	-	10/50
		93-246MM	Tracheostomy Mask	Pediatric	-	10/50
		93-110MM	Face Tent	Adult	-	10/50
	Oxygen & Aerosol Tubing					
	93-402MM	9-402MM	Oxygen Tubing Fits-All™/Std or Std/Std	-	2.1m 	10/50
	93-404MM	9-404MM	Oxygen Tubing Fits-All™/Std or Std/Std	-	4.2m 	10/50
	93-407MM	9-407MM	Oxygen Tubing Fits-All™/Std or Std/Std	-	7.6m 	5/25
	93-408MM	9-408MM	Oxygen Tubing Fits-All™/Std or Std/Std	-	15.2m 	10/20
		93-414MM	Tubing No Connectors, ID 4.75, OD 7.14 mm	-	10m Smooth bore	1/10
		93-430MM	Tubing No Connectors, ID 4.75, OD 7.14 mm	-	30m Smooth bore	1/1
		93-600MM	Corrugated Aerosol Tube, cuttable every 15cm	-	30.5m	1/1
		93-626MM	Corrugated Aerosol Tube, cuttable every 15cm	-	1.8m	5/10
		93-969MM	22mm-Aerosol-to-Oxygen Nipple Adapter	-	-	10/50
	Gas Sampling Lines for etCO₂ Monitoring					
		93-892MM	Gas Sampling Line, ID 1.27/ OD 3.33mm, M/M Luer Lock	3.0m	Smooth bore	10/30
		93-895MM	Gas Sampling Line, ID 1.68/ OD 3.33mm, M/M Luer Lock	3.0m	Smooth bore	10/30
		93-897MM	Gas Sampling Line, ID 1.68/ OD 3.33mm, M/F Luer Lock	3.0m	Smooth bore	10/30
		93-898MM	Gas Sampling Line, ID 1.27/ OD 3.33mm, M/F Luer Lock	3.0m	Smooth bore	10/30
	Accessories					
		93-1379MM	Aerosol T-Piece 22/18 x 22/15 x 22/18 mm	-	-	10/50
		93-865MM	Aerosol Mouth Piece, Single	-	-	10/50
		93-500MM	Bubble Humidifier, 250ml/cc, 5 PSI	-	-	10/50
		625M-L	Naso-Fix™ Securement Tape, Large	Adult	-	100/1600
		625M-S	Naso-Fix™ Securement Tape, Small	Pediatric	-	100/1600
		625M-I	Naso-Fix™ Securement Tape, Infant	Infant	-	100/1600



For further information on these products, please contact your local ConvaTec sales representative.

With reservations for misprints and alterations in product specifications. Printed version not controlled.