

Oxygen & Aerosol Therapy

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Oxygen Therapy **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 **oxygen staircase** below illustrates the level of oxygenation which can be achieved by the different devices and moreover gives examples of the disease patterns.

- Medium Concentration Oxygen Masks
- High Flow Nasal Cannulas
- Acute use e.g.: • Oxygen Catheters

• Nasal Oxygen

• Acute & chronical use

Cannulas

e.g.:

- COPD

- Pneumonia

- Post-OP recovery

6 liters/minute • Flow rates over 4 liters/minute may

(Humidification is recommended) [1]

Low Concentration

• Maximum flow rate of

- Post-OP recovery
- Minimal trauma - Patient transfer
- Used for patients requiring more oxygen than is delivered via a standard nasal cannula (> 6 liters/minute)
- result in nasal irritation



Medium Concentration

- High Concentration Oxygen Masks
- Acute use e.g.:
- Trauma
- Shock

• Venturi Masks

• Acute use e.g.:

- Minimal trauma

Used for patients

requiring a fixed

Concentration

- COPD

- Severe allergic reaction
- Integrated reservoir bag always provides a large amount of oxygen to achieve a high concentration



[1] AARC Guideline - Oxygen Therapy for Adults in the Acute Facility 2002 ${\rm FIO}_2$: Fraction of inspired oxygen

Oxygen Therapy Low Concentration



Oxygen Therapy Medium Concentration



Nasal Oxygen Cannulas

Nasal oxygen cannulas are used in the delivery of lower flows of oxygen (up to 6 liter/ minute).

The oxygen concentration achieved is proportional to:

- The flow rate of oxygen
- The patient tidal volume
- Inspiratory flow rate
- Naso-pharyngeal volume

Sof-Touch Cannulas

Increased patient comfort and safety

The Unomedical Sof-Touch nasal oxygen cannulas offer a broad range of solutions for all demands.

- Adult, Infant, Paediatric and Premature sizes
- Perfect fit by adaption to anatomical requirements
- Light-weight design
- Exceptionally flexible and soft nasal prongs
- DEHP free nasal part
- No-Crush Oxygen tubing
- Optional with Fits-All Connector for direct connection to the Flow Meter

Oxygen Catheters

- Mono-nasal oxygen catheters
- Blue coloured material helps to prevent potential mix-up with nasal feeding tubes
- Soft rounded distal tip
- Atraumatic lateral eyes
- With compress (fixed or adjustable) for placement in the nostrils
- Without compress for placement in the nasopharynx

FiO ₂ : 24 - 44%							
Flow rate Guide Nasal Oxygen Cannul	as/Oxygen Catheters						
Flow (LPM)	FiO ₂						
1	24%						
2	28%						
3	32%						
4	36%						
5	40%						
6	44%						



Sof-Touch Adult

Sof-Touch Paediatric

Sof-Touch

Sof-Touch Premature

Sof-Touch Low Flow



- For low-flow oxygen therapy (up to 3 liter/minute)
- Extra small prongs
- Discrete and extremely light-weight design
- Drastically increases patient's comfort, permitting higher freedom and an active lifestyle

Naso-Fix Securement tape for nasal tubes & catheters



- Secure fixation of nasal tubes Prevents displacement/saves time on re-introduction
- Optimum patient comfort Skin friendly fixation at optimum angle
- Discrete appearance Skin coloured / Available in 3 different sizes
- Easy application and removal
 Efficient securement with minimum time consumption

Please ask us for detailed information on our complete securement device programme



Medium Concentration Oxygen Masks

Medium concentration masks are designed for use when precise control of inspired oxygen concentration is not mandatory.

During inspiration, the patient draws gases both from oxygen flowing into the mask through the tubing, as well as from room air via ports on the sides of the mask. Oxygen concentration delivered is 40 - 60% depending on the patients breathing rate and tidal volume.

Unomedical Oxygen Masks

- Quick and easy to set up and apply to the patient
- Easy fit and excellent seal ensuring patient comfort
- Under-the-chin design eases patient acceptance and compliance
- Transparent mask enables observation of face colour and vital signs
- Adjustable nose clip assures comfortable fit
- Latex free mask and elastic strap eliminates the risk of allergic reactions

Sof-Touch High Flow

High-flow oxygen supply with increased patient comfort

The Unomedical Sof-Touch High Flow nasal oxygen cannula is able to deliver high oxygen flows from 6 to 15 liter/minute, archiving FiO₂ rates of medium concentration oxygen masks.

Continuous oxygen supply can be provided even during medication application, eating, drinking and talking. Patient compliance can be drastically improved.

The Sof-Touch High Flow cannula is part of the Sof-Touch product family, providing:

- Exceptionally flexible and soft curved nasal prongs
- · Perfect anatomical fit
- Light weight design
- DEHP-free nasal part
- No-Crush Oxygen tubing



Sof-Touch High Flow cannula

FiO₂: 40 - 60%

Flow rate Guide Medium Concentratio	n Masks
Flow (LPM)	FiO ₂
5 - 6	40%
6 - 7	50%
7 - 8	60%

Acc to: Respiratory Care Equipment. Mosby, J.M Cairo, Susan P. Pilbeam. Sixth Edition 1999. p. 75.

Oxygen Therapy High/Fixed Concentration



High Concentration Oxygen Masks

High concentration oxygen masks are equipped with a reservoir bag allowing an adequate amount of oxygen to be available to meet unpredictable breathing patterns and tidal volumes.

One way valves located at the exhalation ports prevent air from entering the mask during inhalation and allow the exhaled gases to exit the mask on exhalation, maintaining a high concentration of oxygen.

Non-rebreathing masks

An additional check valve located between the mask and the reservoir bag prevents the patient from rebreathing his exhaled gas. Oxygen concentration delivered is 80 - 100% depending on the patients breathing rate and tidal volume.

Unomedical Oxygen/ Venturi Masks

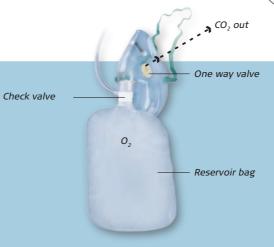
- Quick and easy to set up and apply to patient
- Easy fit and excellent seal ensuring patient comfort
- Under-the-chin design eases patient acceptance and compliance
- Transparent mask enables observation of face colour and vital signs

35%

40%

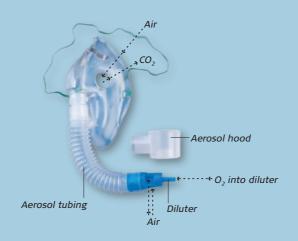
60%

- Adjustable nose clip assures comfortable fit
- The aerosol hood of the Venturi Masks enables optional humidification



FiO ₂ :	>80%
Flow rate Guide High Concentration N	Nasks
Flow (LPM)	FiO ₂
8	80%
9	>80%
10	>80%

According to: Clinical application of respiratory care. Shapiro BA et al. Ed. 4, St. Louis. 1991. Mosby.



FIO₂: 24 - 60% Flow rate Guide Venturi Masks Flow (LPM) 2 2 24% 4 28%

Fixed Concentration Venturi Masks

The principle of the venturi mask is to deliver a predetermined concentration of oxygen regardless of the patient's respiratory pattern. Oxygen flows though the diluter dragging in air through the air-entrainment ports.

Venturi masks create a constant proportion of air/oxygen mixture in excess of patients inspiratory flow rate. With gas flow constantly in excess of patient demands and with enhanced CO₂ washout, rebreathing is nearly eliminated.

Flow rate 2 - 15 I/min. Oxygen concentration delivered is 24 - 60% depending on the choice of the diluter.

Oxygen Therapy

End-Tidal Carbon-Dioxide Measurement

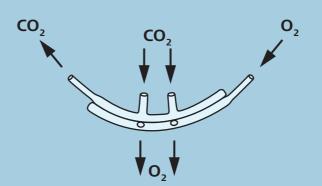


MacSafe Cannula

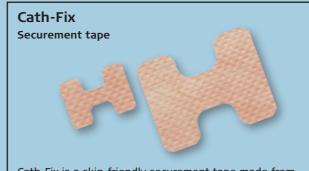
The MacSafe nasal oxygen cannula is designed to provide oxygen whilst simultaneously monitoring end-tidal carbon-dioxide (etCO₂), for monitoring of non-intubated patients.

Constant Measuring Efficience

The special design of the cannula provides oxygen through two bottom ports, while the nasal tips solely collect expired CO₂ through the gas sampling line.



This design provides two completely independent pathways for oxygen and carbon-dioxide, permitting an undiluted etCO₂ sampling even with higher Oxygen flow rates for increased measurement accuracy ^[1].



Cath-Fix is a skin-friendly securement tape made from non-woven polypropylene material with a medical grade allergy tested adhesive.

Using Cath-Fix together with MacSafe, helps to keep the tubing of the cannula out of the surgical field (e.g. during ophthalmic operations).

Please ask us for detailed information on our complete securement device programme



Increased patient comfort and safety

The MacSafe cannula is part of the Sof-Touch product family, providing:

- Exceptionally flexible and soft nasal prongs
- DEHP free nasal prongs

Gas sampling line

- · Light weight design
- · Perfect anatomical fit

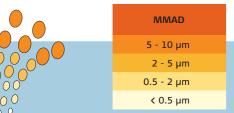
In a controlled clinical trial, the MacSafe cannula was judged by the study population to be the most comfortable cannula [1].

Convenient for all clinical applications

- Adult and paediatric versions
- Male and female gas-sampling luer connector versions
- 22mm ID circuit adapter packed with each MacSafe
- Fits-All connector for attachment to humidifier or directly to the flow meter

Aerosol Therapy

Nebuliser Performance and Areas of Application



Particle deposition
Pharyngeal / Laryngeal
Tracheobronchial
Alveolar
Exhaled

Mass Median Aerodynamic Diameter

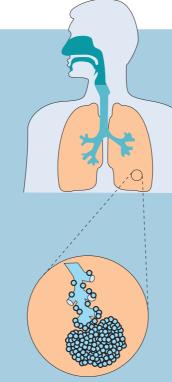
Nebulisers create a wide size spectrum of particles. In order to characterize the respirable dose provided to the patient, the mass median aerodynamic diameter (MMAD) is used.

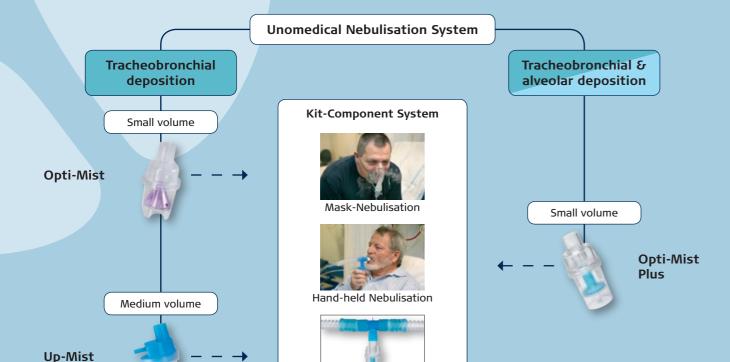
The MMAD represents the diameter around which the mass of the aerosol is equally divided, for the population of particles produced by the nebuliser.

Particle sizes between 2 - 5 μ m are deposited inside the tracheobronchial airways. Particle sizes smaller than 2 μ m are deposited in the alveolar parenchyma, where particles smaller than 0.5 μ m are too small for deposition and are exhaled again. Particles larger than 5 μ m are too large and are not able to reach the lower respiratory tract.

Depending on the application, a tracheobronchial- or alveolar deposition and therefore different MMAD are required. This in turn often requires different nebulisers.

Unomedical offers a complete medication nebulisation system with three different nebulisers, either for tracheobronchial deposition, or with the **Opti-Mist Plus** Nebuliser a scalable solution for both – tracheobronchial and alveolar deposition of particles.





In-Line Nebulisation

Opti-Mist Plus

The Scalable Nebulisation Solution

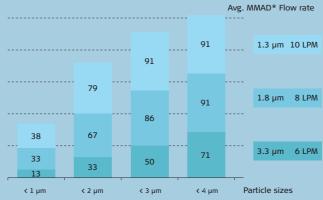


Vertical



The **Opti-Mist Plus** provides efficient performance at any angle between 0-90°.

Particle size distribution by volume



At a gas flow of 6 LPM Opti-Mist Plus works as a nebuliser for tracheobronchial deposition with 71% of the particles smaller than $4\mu m$ and an average MMAD* of 3.3 μm .

With higher flow rates the average MMAD* decreases, down to 1.3 μ m (at 10 LPM), providing 79% of all particles smaller than 2 μ m - ideal for alveolar deposition.

Opti-Mist Plus Closed System Nebuliser

Especially designed for use when contamination of the ambient environment with the aerosolised drugs needs to be reduced (e.g. Pentamidine nebulisation).

- Isolation of the inspiratory and expiratory flow by one-way valves and filter
- Filter with hydrophobic membrane (bacterial/ viral filtration efficiency: 99.9999%/99.999%)
- Optimist Plus nebuliser chamber for production of fine dense particles for alveolar deposition

Universal Application

Opti-Mist Plus is a nebuliser, designed for both – tracheobronchial and alveolar deposition, providing a nebulisation solution for most clinical needs.

Scalable by the gas flow, **Opti-Mist Plus** produces particles with an average MMAD* between 3.3 and 1.3 micrometers thus eliminating the need of different nebulisers for different types of application.

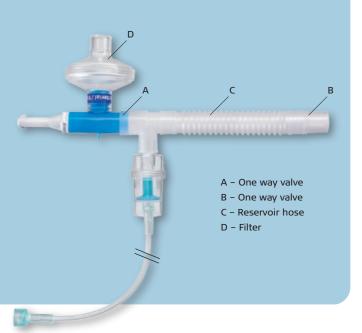
Opti-Mist Plus represents the core of a complete nebulisation system providing virtually any configuration required by healthcare professionals today.

Efficient Performance

- High nebulisation rates provide efficient nebulisation at low residual volumes, minimising medication waste.
- Usable in positions between 0 and 90°, with constant performance. allowing the patients to be in a comfortable position during the treatment.

Easy to use

- Large grips provide an easy and quick assembly.
- Fits-All connector allows direct connection to flow meters.
- Conveniently packed in 10 pieces for uncomplicated distribution in hospitals.



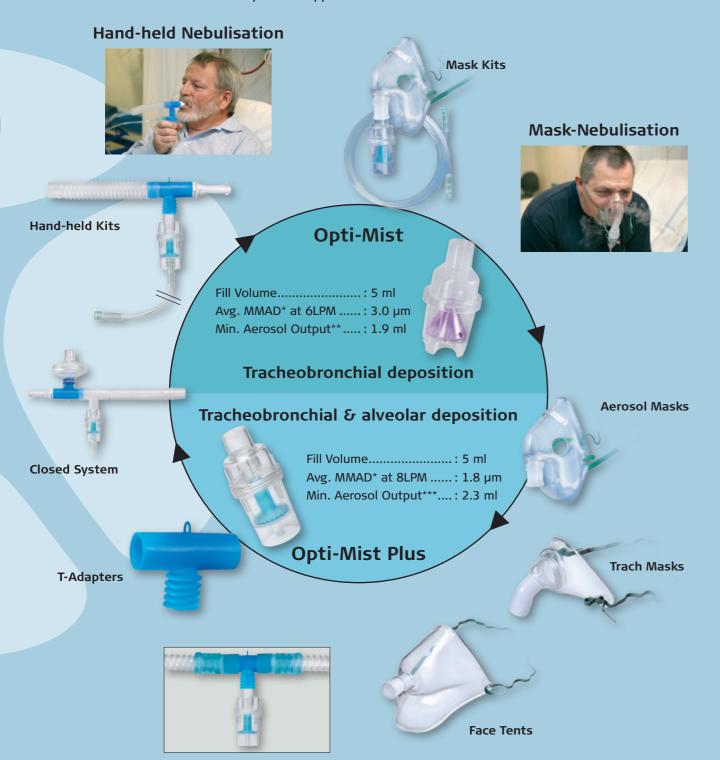
* Average MMAD of all operating angles (0-90°)
Please ask your Unomedical representative for detailed specifications.

Aerosol Therapy Unomedical Nebulisation System



Unomedical offers a complete medication nebulisation system with three different nebulisers, either for tracheobronchial deposition, or with the Opti-Mist Plus Nebuliser a scalable solution for both - tracheobronchial- and alveolar deposition of particles.

A complete system with pre-assembled kits and single components for mask-, hand-held and in-line nebulisation is available in order to suit any clinical application.



Aerosol Therapy Lung Expansion Therapy

Medium Volume Nebulisers/I.P.P.B. Circuits/ **Incentive Spirometers**

Up-Mist

The Unomedical Up-Mist is a nebuliser for tracheobronchial deposition with a volume of 25 ml, designed especially for medium term nebulisation.

- Low residual volume minimises waste of medication
- Optimal MMAD for tracheobronchial deposition of particles
- Quick and easy to set up
- Nebulises in upright position at angles up to 45 degrees

I.P.P.B. Circuits

Intermittend Positive Pressure Breathing is an established therapy to deliver positive pressure breaths to a patient in such a way as to hyperinflate the lungs as well as hyperexpand the chest wall. The therapy has proven to be an effective tool in fighting chronic hypoventilation and the resultant decreasing elastance of the chest wall.

Unomedical Universal I.P.P.B. Circuit

- Universal application (one or two drive lines) by included adapter kit
- Pre-assembled ready-to-go circuit
- Integrated Up-Mist Nebuliser for simulatenous delivery of aerosolised medication



Fill Volume...... Avg. MMAD* at 6LPM: 3.6 μm Min. Aerosol Output**: 2.1 ml

THE REAL PROPERTY.



Incentive Spirometers***

Respiratory insufficiency is a complication, which can be observed very often after major surgery. But also hospitalised patients with severe diseases, not directly related to the lung, can be affected. Such respiratory complications can be allayed by increasing the functional residual capacity of the lung.

Incentive Spirometry represents an effective way to help the awake patient to gently restore his respiratory parameters by performing simple breathing exercises.



Unomedical Volumetric and Flow Controlled Exercisers

- Easy storage by compact and ergonomical design
- Increased hygiene, by an integrated container for placement and protection of the mouthpiece after washing
- Easy to use by instructional visual hints indicating optimal inhalation
- · Increased patient compliance by colourful, child-oriented labelling of the paediatric exercisers



In-line Nebulisation







with smooth bore

No-Crush lumen

Connectors



Oxygen tubing



No-Crush lumen

Connectors

Oxygen tubing

Standard lumen with smooth bore

No-Crush lumen

Oxygen & Aerosol Therapy The Complete Range

318M 3318 319M 332M 3332 3332 3333 3338 304L	MM BMM MM PMM MM	Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved	Adult Adult Adult Adult	Nasal Oxygen Cannula w. Soft, Curved Tips	2.1 2.1 4.2	No-Crush No-Crush No-Crush	Standard Fits-All Standard	10/50 10/50
318/ 3318 319/ 3319/ 332/ 3332 3333 3333 3338	MM BMM MM PMM MM	Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved	Adult Adult Adult	Nasal Oxygen Cannula w. Soft, Curved Tips Nasal Oxygen Cannula w. Soft, Curved Tips	2.1	No-Crush	Fits-All	10/50
318M 331E 319M 331Q 331Q 3332M 3332 3333 3333 3338	MM BMM MM PMM MM	Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved	Adult Adult Adult	Nasal Oxygen Cannula w. Soft, Curved Tips Nasal Oxygen Cannula w. Soft, Curved Tips	2.1	No-Crush	Fits-All	10/50
319M 3319M 332M 3332M 3333 3333 3338	MM PMM MM PMM	Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved	Adult Adult	Nasal Oxygen Cannula w. Soft, Curved Tips	4.2			
3319 3320 3332 3337 3338	PMM MM 2MM	Sof-Touch Cannula, Curved Sof-Touch Cannula, Curved	Adult	13	_	No-Crush	Standard	10/5
3319 332M 3332 3333 3337 3338	MM 2MM	Sof-Touch Cannula, Curved		Nasal Oxygen Cannula w. Soft Curved Tips	(2			10/5
3332 3337 3338	2MM		D 1: 1 :	indea on gen command in sort, carred mps	4.2	No-Crush	Fits-All	10/5
3337			Paediatric	Nasal Oxygen Cannula w. Soft, Curved Tips	2.1	No-Crush	Standard	10/5
3337	7MM	Sof-Touch Cannula, Curved	Paediatric	Nasal Oxygen Cannula w. Soft, Curved Tips	2.1	No-Crush	Fits-All	10/5
3330		Sof-Touch Cannula, Straight	Infant	Nasal Oxygen Cannula w. Soft, Straight Tips	2.1	No-Crush	Fits-All	10/5
304L	3MM	Sof-Touch Cannula, Straight	Premature		2.1	No-Crush	Fits-Al	10/5
	-FMM	Sof-Touch Low Flow Cannula	Adult	Nasal Oxygen Cannula with Curved Tips for Low Flow Therapy	2.1	Standard	Fits-All	25
312/	MM	Standard Cannula, Straight	Adult	Nasal Oxygen Cannula w. Straight Standard Tips	2.1	No-Crush	Standard	10/5
ygen Catheters								
1903		Oxygen Catheter, Plain	CH 08	40cm, 8 Lateral Eyes, Blue, Sterile	-	-	Male	100
1903	3518	Oxygen Catheter, Plain	CH 10	40cm, 8 Lateral Eyes, Blue, Sterile	-	-	Male	100
1903	3718	Oxygen Catheter, Plain	CH 12	40cm, 8 Lateral Eyes, Blue, Sterile	-	-	Male	100
1903	3818	Oxygen Catheter, Plain	CH 14	40cm, 8 Lateral Eyes, Blue, Sterile	-	-	Male	10
1903	3918	Oxygen Catheter, Compress	CH 08	40cm, Fixed Compress, Blue, Sterile	-	-	Male	10
1904	4018	Oxygen Catheter, Compress	CH 10	40cm, Fixed Compress, Blue, Sterile	-	-	Male	10
1904	4118	Oxygen Catheter, Compress	CH 12	40cm, Fixed Compress, Blue, Sterile	-	-	Male	10
1904	4218	Oxygen Catheter, Compress	CH 14	40cm, Fixed Compress, Blue, Sterile	-	-	Male	10
1902	2918	Oxygen Catheter, Compress, Adjustable	CH 08	40cm, 8 Lateral Eyes, Adjustable Compress, Blue, Sterile	-	-	Male	10
1903	3018	Oxygen Catheter, Compress, Adjustable	CH 10	40cm, 8 Lateral Eyes, Adjustable Compress, Blue, Sterile	-	-	Male	10
1903	3218	Oxygen Catheter, Compress, Adjustable	CH 14	40cm, 8 Lateral Eyes, Adjustable Compress, Blue, Sterile	-	-	Male	100
ygen Therapy - Medi dium Concentration 103M	Oxygen		Adult	Elongated Mask, Adjustable Nose-Clip, Single	-	-	-	10/5
9102	2MM	Medium Concentration Mask	Adult	Elongated Mask, Adjustable Nose-Clip	2.1	No-Crush	Standard	10/
223/	MM	Medium Concentration Mask	Paediatric	Elongated Mask, Adjustable Nose-Clip, Single	-	-	-	10/
9222	2MM	Medium Concentration Mask	Paediatric	Elongated Mask, Adjustable Nose-Clip	2.1	No-Crush	Standard	10/
2631	MM	Medium Concentration Mask	Infant	Medium Concentration Mask, Single	-	-	-	10/
	62MM	Medium Concentration Mask	Infant	Medium Concentration Mask	2.1	No-Crush	Fits-All	10/
th Flow Nasal Oxyget 314F	n Cannu HFMM	Sof-Touch High Flow cannula	Adult	Nasal Oxygen Cannula with Curved Tips for High Flow Therapy	2.1	No-Crush	Standard	25

Oxygen & Aerosol Therapy The Complete Range

	REF	Item	Size	Description	1	Tubing	onnector	Packin unit
					m	Туре		
ygen Therapy	- Fixed Concer	ntration				· · · · ·		
ed Concentrat	ion Oxygen M	asks						
6	3120MMEU	Venturi-Mask Kit, Universal	Adult	Kit w. Elongated Mask, 15cm Aerosol Tubing, Aerosol Hood, Diluters (24,28,35,40,60%)	2.1	No-Crush	Fits-All	10/50
2	93227MMEU	Venturi-Mask Kit, Universal	Paediatric	Kit w. Elongated Mask, 15cm Aerosol Tubing, Aerosol Hood, Diluters (24,28,35,40,60%)	2.1	No-Crush	Fits-All	10/50
A PARA	93270MMEU	Venturi-Mask Kit, Universal	Infant	Kit w. Elongated Mask, 15cm Aerosol Tubing, Aerosol Hood, Diluters (24,28,35,40,60%)	2.1	No-Crush	Fits-All	10/50
d-Tidal Carbon								
cSafe etCO ₂ N								
	368MM	MacSafe Cannula	Adult	etCO ₂ Monitoring Cannula w. 3m Gas Sampling Line/ Male Luer, 22mm ID Circuit Adapter	2.1	Standard	Fits-All	10/20
11	369MM	MacSafe Cannula	Adult	etCO ₂ Monitoring Cannula w. 3m Gas Sampling Line/ Female Luer, 22mm ID Circuit Adapter	2.1	Standard	Fits-All	10/20
	362MM	MacSafe Cannula	Paediatric	etCO ₂ Monitoring Cannula w. 7.5cm Gas Sampling Pigtail/ Male Luer, 22mm ID Circuit Adapter	2.1	Standard	Fits-All	10/20
	363MM	MacSafe Cannula	Paediatric	etCO ₂ Monitoring Cannula w. 7.5cm Gas Sampling Pigtail/ Female Luer, 22mm ID Circuit Adapter	2.1	Standard	Fits-All	10/20
rosol Therapy								
ti-Mist Plus Tr	acheobronchia	al/Alveolar Nebuliser & Kits						
	770MM	Opti-Mist Plus Nebuliser	-	Nebuliser Chamber, 5ml, Single	-	-	-	10/50
	3771MM	Opti-Mist Plus Hand-held Kit	Universal	Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube	2.1	Standard	Fits-All	10/50
(1)	3772MM	Opti-Mist Plus Mask-Kit	Adult	Nebuliser w. Aerosol Mask (Elongated)	2.1	Standard	Fits-All	10/50
	3773MM	Opti-Mist Plus Mask-Kit	Paediatric	Nebuliser w. Aerosol Mask (Elongated)	2.1	Standard	Fits-All	10/50
	4303MM	Opti-Mist Plus Closed System	Universal	Nebuliser with T-/ Mouth Piece, 15cm Reservoir Tube, One-Way Valves, Filter w. Hydrophobic	2.1	Standard	Fits-All	10/20
				Membrane				
ti-Mist Trache				Membrane				10/50
ti-Mist Trache	750MM	Opti-Mist Nebuliser, single	-	Membrane Nebuliser Chamber, 5ml, Single	-	-	-	
ti-Mist Trache	750MM 3753MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit	- Adult	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated)	2.1	- Standard	- Fits-All	10/50
ti-Mist Trache	750MM 3753MM 3229MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit	Paediatric	Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated)	2.1	Standard	Fits-All	10/50
ti-Mist Trache	750MM 3753MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit		Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated)	2.1			10/50
	750MM 3753MM 3229MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit	Paediatric	Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated)	2.1	Standard	Fits-All	10/50
nti-Mist Trache	750MM 3753MM 3229MM 3759MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit	Paediatric	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube	2.1	Standard	Fits-All	10/50 10/50 10/50
	750MM 3753MM 3229MM 3759MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece	Paediatric Universal	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces	2.1	Standard	Fits-All	10/50 10/50 10/50
	750MM 3753MM 3229MM 3759MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit	Paediatric Universal	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube	2.1	Standard	Fits-All	10/50 10/50 10/50
mponents	750MM 3753MM 3229MM 3759MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece	Paediatric Universal	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency:	2.1	Standard	Fits-All	10/50 10/50 10/50
nponents	750MM 3753MM 3229MM 3759MM 865MM 864MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter	Paediatric Universal	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99.9999/99.999, 15mm ID/ 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x	2.1	Standard	Fits-All	10/50 10/50 10/50 50 50
nponents	750MM 3753MM 3229MM 3759MM 865MM 864MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter Aerosol-T-Adapter	Paediatric Universal	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99,999/99,999, 15mm ID/ 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x 22mm OD/ 18mm ID Elongated Mask, Adjustable Nose-Clip	2.1	Standard	Fits-All	10/50 10/50 10/50 50 50 50
	750MM 3753MM 3229MM 3759MM 865MM 864MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter Aerosol-T-Adapter Aerosol Mask	Paediatric Universal Adult	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99.9999/99.999, 15mm ID/ 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x 22mm OD/ 18mm ID Elongated Mask, Adjustable Nose-Clip	2.1	Standard	Fits-All	10/50 10/50 10/50 50 50 50 10/50
nponents	750MM 3753MM 3229MM 3759MM 865MM 864MM 1379MM 100MM 220MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter Aerosol-T-Adapter Aerosol Mask Aerosol Mask	Paediatric Universal Adult Paediatric	Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99.999/99.999, 15mm ID / 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x 22mm OD/ 18mm ID Elongated Mask, Adjustable Nose-Clip Elongated Mask, Adjustable Nose-Clip	2.1	Standard	Fits-All	10/50 10/50 10/50 50 50 50 10/50 10/50
mponents	750MM 3753MM 3229MM 3759MM 865MM 864MM 1379MM 100MM 220MM 260MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter Aerosol-T-Adapter Aerosol Mask Aerosol Mask Aerosol Mask	Paediatric Universal Adult Paediatric Infant	Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99.9999/99.999, 15mm ID / 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x 22mm OD/ 18mm ID Elongated Mask, Adjustable Nose-Clip Elongated Mask, Adjustable Nose-Clip Aerosol Mask Mask with swivel connector	2.1	Standard	Fits-All	10/50 10/50 10/50 50 50 50 10/50 10/50 10/50
mponents	750MM 3753MM 3229MM 3759MM 865MM 864MM 1379MM 100MM 220MM 260MM 245MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter Aerosol-T-Adapter Aerosol Mask Aerosol Mask Arosol Mask Trach Mask	Paediatric Universal Adult Paediatric Infant Adult	Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99.9999/99.999, 15mm ID / 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x 22mm OD/ 18mm ID Elongated Mask, Adjustable Nose-Clip Elongated Mask, Adjustable Nose-Clip Aerosol Mask Mask with swivel connector	2.1	Standard	Fits-All	10/50 10/50 10/50 50 50 10/50 10/50 10/50 10/50
mponents	750MM 3753MM 3229MM 3759MM 865MM 864MM 1379MM 100MM 220MM 245MM 246MM 110MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter Aerosol-T-Adapter Aerosol Mask Aerosol Mask Arach Mask Trach Mask Face Tent	Paediatric Universal Adult Paediatric Infant Adult Paediatric	Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99.9999/99.999, 15mm ID / 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x 22mm OD/ 18mm ID Elongated Mask, Adjustable Nose-Clip Elongated Mask, Adjustable Nose-Clip Aerosol Mask Mask with swivel connector	2.1	Standard	Fits-All	10/50 10/50 10/50 50 50 10/50 10/50 10/50 10/50
mponents	750MM 3753MM 3229MM 3759MM 865MM 864MM 1379MM 100MM 220MM 245MM 246MM 110MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter Aerosol-T-Adapter Aerosol Mask Aerosol Mask Trach Mask Trach Mask Face Tent	Paediatric Universal Adult Paediatric Infant Adult Paediatric	Membrane Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99.9999/99.999, 15mm ID/ 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x 22mm OD/ 18mm ID Elongated Mask, Adjustable Nose-Clip Elongated Mask, Adjustable Nose-Clip Aerosol Mask Mask with swivel connector Mask with swivel connector	2.1	Standard	Fits-All	10/50 10/50 10/50 50 50 10/50 10/50 10/50 10/50
mponents	750MM 3753MM 3229MM 3759MM 865MM 864MM 1379MM 100MM 220MM 245MM 246MM 110MM	Opti-Mist Nebuliser, single Opti-Mist Mask-Kit Opti-Mist Mask-Kit Opti-Mist Hand-Held Kit Mouth piece Bacterial/Viral Filter Aerosol-T-Adapter Aerosol Mask Aerosol Mask Arach Mask Trach Mask Face Tent	Paediatric Universal Adult Paediatric Infant Adult Paediatric	Nebuliser Chamber, 5ml, Single Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. Aerosol Mask (Elongated) Nebuliser w. T-/ Mouth Piece, 15cm Reservoir Tube Bulk Packed Single Mouth Pieces Exchange Filter for Opti-Mist Plus Closed System Hydrophobic Membrane, B/V Filtration Efficiency: 99.9999/99.999, 15mm ID / 22mm OD x 22mm ID TEE 22mm OD/ 18mm ID x 22mm OD/15 mm ID x 22mm OD/ 18mm ID Elongated Mask, Adjustable Nose-Clip Elongated Mask, Adjustable Nose-Clip Aerosol Mask Mask with swivel connector	2.1	Standard	Fits-All	50

Oxygen & Aerosol Therapy The Complete Range

connector

	REF	Item	Size	Description	Tubing		Connector	
					m	Туре		unit
ung Expansion	Therapy							
P.P.BCircuits/	Incentive Spir	rometers						
	903MM	Universal I.P.P.BCircuit	Universal	Up-Mist Nebuliser Chamber, 1m Aerosol Tubing, 15cm Patient End Flex-Tube, Exhalation Valve, Drive Lines, Mouth Piece, Adapter Kit for Bird Respirators	-	-	-	10/50
	790MM	Volumetric Breathing Exerciser	Adult	Single Ball Spirometer with large volume measurement up to 4000 ml	-	-	-	12
41	791MM	Volumetric Breathing Exerciser	Adult	Single Ball Spirometer with small volume measurement up to 2500 ml	-	-	-	12
-	792MM	Volumetric Breathing Exerciser	Paediatric	Single Ball Spirometer for ped. volume measurement up to 2500 ml	-	-	-	12
U	795MM	Flow Controlled Exerciser	Universal	Incentive Spirometer with 3 balls, 600-1200 ml/sec Flow Rate	-	-	-	12
ubing & More	/OOAAAA	Ossigna Tubing		Ourgan Tubing us Chandred Luman	121	Ctondord	Ctandard	10/50
	400MM	Oxygen Tubing	-	Oxygen Tubing w. Standard Lumen	2.1	Standard	Standard	10/50
	402MM	Oxygen Tubing	-	Oxygen Tubing w. No-Crush Lumen	2.1	No-Crush	Standard	10/50
	3402MM	Oxygen Tubing	-	Oxygen Tubing w. No-Crush Lumen, Fits-All	2.1	No-Crush	Fits-All	10/50
	404MM	Oxygen Tubing	-	Oxygen Tubing w. No-Crush Lumen	4.2	No-Crush	Standard	10/50
	407MM	Oxygen Tubing	-	Oxygen Tubing w. No-Crush Lumen	7.6	No-Crush	Standard	10/20
	408MM	Oxygen Tubing	-	Oxygen Tubing w. No-Crush Lumen	15.2	No-Crush	Standard	10/20
	600MM	Aerosol Tubing	-	Aerosol Tubing (ID 22mm), Cuffs every 15cm	30.5	-	-	1
	620MM	Aerosol Tubing	-	Aerosol Tubing (ID 22mm), Cuff Ends	0.15	-	-	250
	626MM	Aerosol Tubing	-	Aerosol Tubing (ID 22mm), Cuff Ends every 15cm	1.8	-	-	10/50
								10/50
	640MM	Aerosol Tubing	-	Aerosol Tubing (ID 22mm), Cuff Ends	1.0	-	-	10/50
	892MM	Aerosol Tubing Gas Sampling Line	-	Aerosol Tubing (ID 22mm), Cuff Ends Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Male Luer-Lock	3.0	-	-	10/30
		+		Gas Sampling Line (ID 1.27mm/ OD 3.33mm)	-	-	-	
	892MM	Gas Sampling Line		Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Male Luer-Lock Gas Sampling Line (ID 1.27mm/ OD 3.33mm)	3.0	-	-	10/30
	892MM 898MM	Gas Sampling Line Gas Sampling Line	-	Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Male Luer-Lock Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Female Luer-Lock Gas Sampling Line (ID 1.68mm/ OD 3.33mm)	3.0	-	-	10/30
	892MM 898MM 895MM	Gas Sampling Line Gas Sampling Line Gas Sampling Line	-	Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Male Luer-Lock Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Female Luer-Lock Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Male Luer-Lock 3,0m Gas Sampling Line (ID 1.68mm/ OD 3.33mm)	3.0	-	-	10/30 10/30 10/30
	892MM 898MM 895MM 897MM	Gas Sampling Line Gas Sampling Line Gas Sampling Line Gas Sampling Line	-	Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Male Luer-Lock Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Female Luer-Lock Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Male Luer-Lock 3,0m Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Female Luer-Lock	3.0 3.0 3.0 3.0	-	-	10/30 10/30 10/30 10/30
	892MM 898MM 895MM 897MM 6306MM	Gas Sampling Line Gas Sampling Line Gas Sampling Line Gas Sampling Line Flow Meter Adapter	-	Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Male Luer-Lock Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Female Luer-Lock Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Male Luer-Lock 3,0m Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Female Luer-Lock "Christmas Tree" Adapter for Flow Meters	3.0 3.0 3.0 3.0	-	-	10/30 10/30 10/30 10/30 50
	892MM 898MM 895MM 897MM 6306MM 625M-L	Gas Sampling Line Gas Sampling Line Gas Sampling Line Gas Sampling Line Flow Meter Adapter Naso-Fix	-	Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Male Luer-Lock Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Female Luer-Lock Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Male Luer-Lock 3,0m Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Female Luer-Lock "Christmas Tree" Adapter for Flow Meters Naso-Fix Large	3.0 3.0 3.0 3.0	- - - - - - -	-	10/30 10/30 10/30 10/30 50 100/1600
	892MM 898MM 895MM 897MM 6306MM 625M-L 625M-S	Gas Sampling Line Gas Sampling Line Gas Sampling Line Gas Sampling Line Flow Meter Adapter Naso-Fix Naso-Fix	-	Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Male Luer-Lock Gas Sampling Line (ID 1.27mm/ OD 3.33mm) Male/ Female Luer-Lock Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Male Luer-Lock 3,0m Gas Sampling Line (ID 1.68mm/ OD 3.33mm) Male/ Female Luer-Lock "Christmas Tree" Adapter for Flow Meters Naso-Fix Large Naso-Fix Small	3.0 3.0 3.0 3.0		-	10/30 10/30 10/30 10/30 50 100/1600 100/1600

All Unomedical products are CE-marked according to the Directive 93/42/EEC concerning medical devices.

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