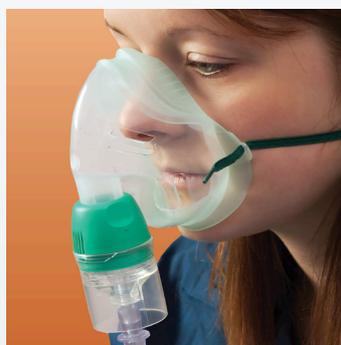
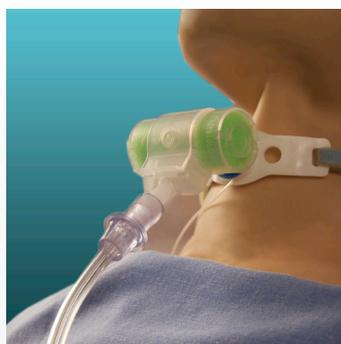
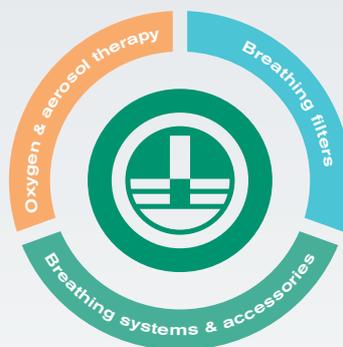


Intersurgical Home Care catalogue

Continuing to care, from the hospital to the home.



Edition 3



Quality, innovation and choice



@intersurgicalNL



/intersurgical NL

www.intersurgical.nl

Committed to care

Intersurgical is Europe's leading designer, manufacturer and supplier of a wide range of medical devices for respiratory support. We provide flexible patient solutions for airway management, anaesthesia, critical care, and oxygen & aerosol therapy.

Experience in this area helps us to understand the changing and challenging clinical environments and needs of our customers. Innovation throughout the business helps us to deliver high quality products and services that offer value and choice.

Our aim is to maintain the highest standards in everything we do: for our employees, clinicians and patients alike. These core principles and values mean Intersurgical is a company you can trust, driven by a commitment to care.

All of our products are designed and manufactured to meet the requirements of relevant BS, ISO and EN standards. We are committed to lowering the environmental impact of our products and services and have implemented an Environmental Management System which has been certified to the international standard ISO 14001.



Contents

Breathing systems, accessories and connectors 05

Single and dual limb breathing systems and accessories.



Breathing filters, HMEs, HMEFs & patient connections 23

Breathing filters, HMEs and HMEFs for protection and passive humidification.



Oxygen & aerosol therapy 36

A range of products for variable concentration oxygen therapy, aerosol therapy and nebulisation therapy.



Intersurgical and Homecare

Intersurgical aims to offer a solution to all your home ventilatory and oxygen delivery needs. We understand that each patient and clinical situation is different and because of this we try to offer the widest range possible.

Our homecare range includes single and dual limb breathing systems suitable for a wide range of homecare ventilators, lengths of tube for CPAP applications through to nasal cannula for oxygen therapy.

If you are unable to find a solution for your needs then please contact us to discuss your specific requirements.

Most popular products

To help with your ordering, we have identified the most widely used and popular products for your regular needs. These are highlighted throughout the catalogue with this logo, for quick and easy selection.

most
POPULAR

Eco range

eco lower environmental impact product, non pvc

These products have been developed to significantly minimise the impact on the environment and are indicated by this logo.





Breathing systems, accessories and connectors

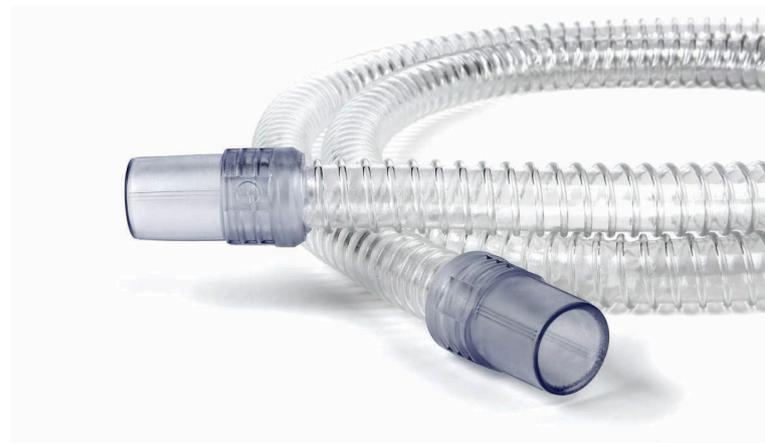
A range of single and dual limb breathing systems.

- Smoothbore tube lengths
- Single limb breathing systems
- Dual limb breathing systems
- Cough Assist breathing systems
- Bilevel breathing systems
- IPPB breathing systems
- Accessories
- Connectors

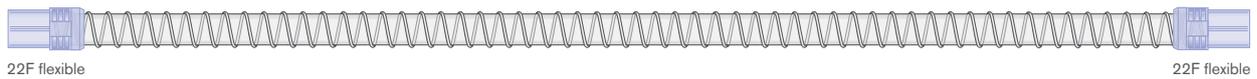


Smoothbore tube lengths

A range of Smoothbore tubing predominantly for homecare CPAP use, with soft end connectors in different lengths and diameters. EcoLite™ tubing is also available as a lightweight non-pvc option.



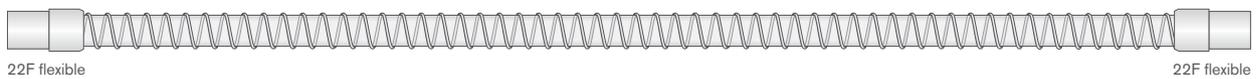
22mm Smoothbore tube lengths with 22mm soft connectors



illustration

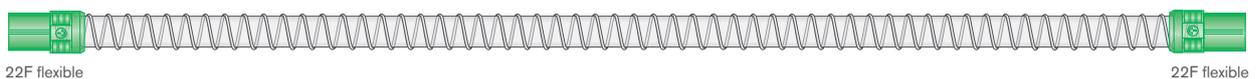
Code	5003000	5004000	5005000	5006000	5080000
Box qty.	50	50	50	40	40
Length	0.3m	0.4m	0.5m	0.6m	0.8m
Code	5010000	5012000	5015000	5018000	5020000
Box qty.	40	30	30	20	20
Length	1.0m	1.2m	1.5m	1.8m	2.0m

22mm Smoothbore polypropylene tube lengths with 22mm soft connectors



Code	5318000
Box qty.	50
Length	1.8m

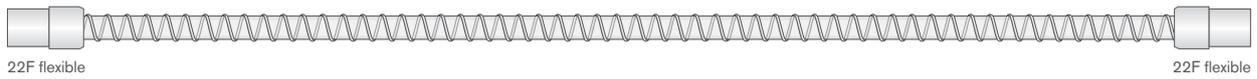
22mm Non-PVC Smoothbore tube lengths with 22mm soft connectors



illustration

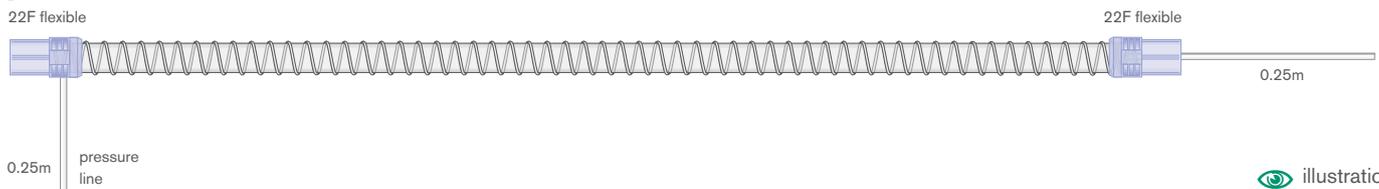
Code	5206000	5218000	5218001
Box qty.	40	20	25
Length	0.6m	1.8m	1.8m
Connector colour	Green	Green	White

15mm Smoothbore polypropylene tube lengths with 22mm soft connectors



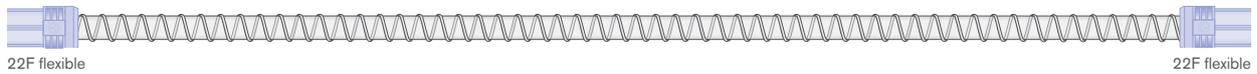
Code	5418000
Box qty.	60
Length	1.8m

22mm Smoothbore tube lengths with 22mm soft connectors and co-axial pressure line



Code	5317000	5326000
Box qty.	20	20
Length	1.8m	1.8m
Inner pressure line	Silicone	PVC

15mm Smoothbore tube lengths with 22mm soft connectors



Code	5118001	5118002	5118003	5118000
Box qty.	20	20	20	20
Length	0.4m	0.6m	1.2m	1.8m

Single limb breathing systems designed for hospital and home

The single limb breathing system with exhalation valve range has been designed with the patient in mind. This range features our exhalation valve popular for its user friendly characteristics and exceptional design. It is fully compatible with all ventilators, including those that incorporate manual PEEP control.

The exhalation valve has ventilator optimised performance which aids patient acceptance.



Features and Benefits



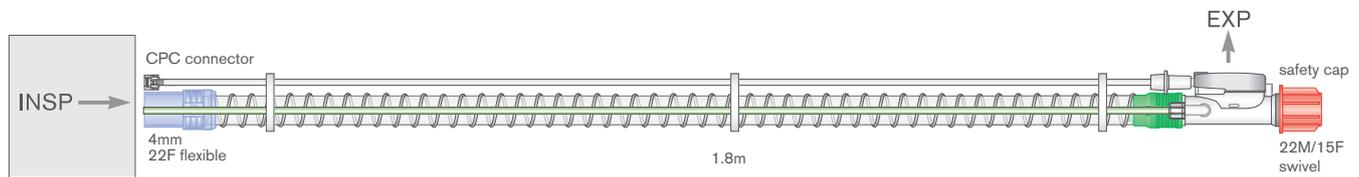
The range

Breathing systems are available with Smoothbore or Flextube™ tubing. Dual limb variants are also available. Please see overleaf in this catalogue or on our website at www.intersurgical.com/info/homecare.

Dedicated 22mm Smoothbore breathing systems with exhalation valve

For **Resmed Eole™**, **Helia™**, **VS® III**, **VS Integra®** and **VS Ultra®** ventilators

For dual limb systems see Smoothbore basic breathing systems.

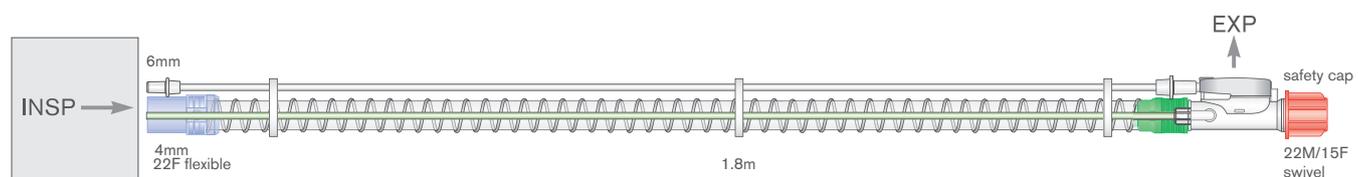


illustration

Code	5190000	5190850	5191010
Box qty.	25	20	20
Tube size	22mm	22mm	22mm
Length	1.8m	1.6m	1.8m
Extra limb		0.5m	0.5m
Heated wire		✓	
Exhalation valve	✓	✓	✓
Pressure monitoring line	✓	✓	✓
Water trap			1

For **Resmed Elisée® 150** ventilator

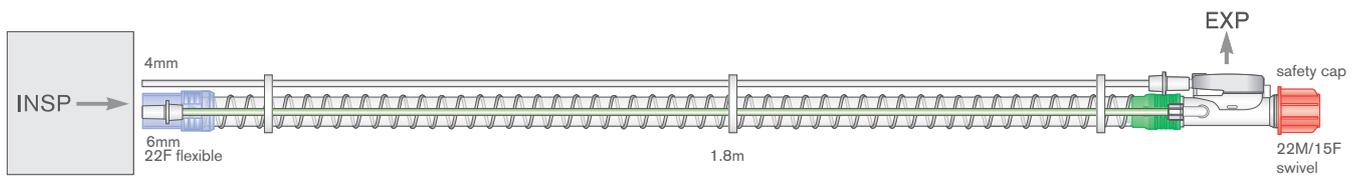
For dual limb systems see Smoothbore basic breathing systems.



illustration

Code	5191004	5191852	5191008
Box qty.	25	25	20
Tube size	22mm	22mm	22mm
Length	1.8m	1.6m	1.8m
Extra limb		0.5m	0.5m
Heated wire		✓	
Exhalation valve	✓	✓	✓
Pressure monitoring line	✓	✓	✓
Water trap			1

For Legendair® and Puritan Bennett 560™ ventilators

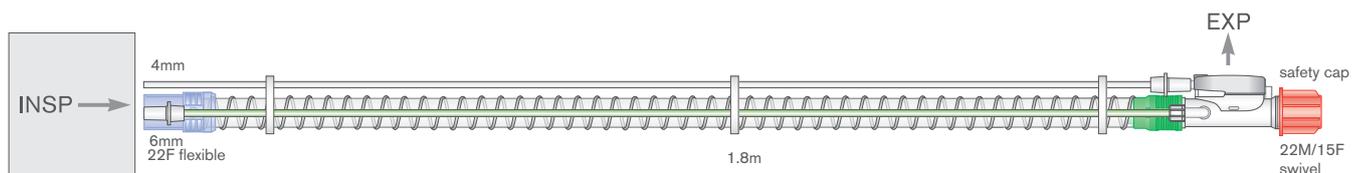


illustration

Code	5191000	5191850	5191006	5195000	5195850
Box qty.	25	25	20	20	20
Tube size	22mm	22mm	22mm	22mm	22mm
Length	1.8m	1.8m	1.8m	1.6m	1.6m
Extra limb		0.5m	0.5m		0.5m
Dual limb				✓	✓
Heated wire		✓			✓
Exhalation valve	✓	✓	✓		
Inline valve				✓	✓
Pressure monitoring line	✓	✓	✓	✓	✓
Water trap			1	1	1
Ported Y-piece				✓	✓

For Philips Respironics® Trilogy™100 ventilator

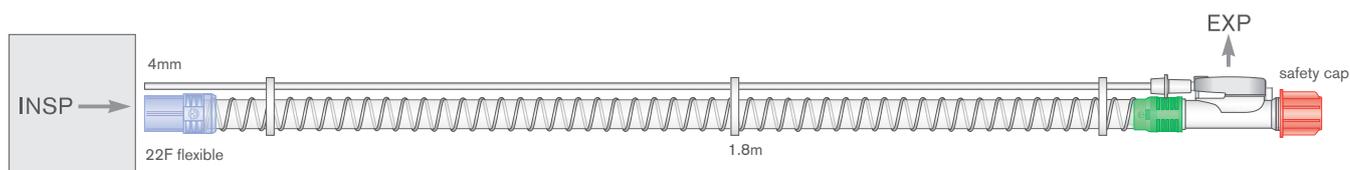
For dual limb systems see Smoothbore basic breathing systems.



illustration

Code	5191000	5191850	5191006
Box qty.	25	25	20
Tube size	22mm	22mm	22mm
Length	1.8m	1.8m	1.8m
Extra limb		0.5m	0.5m
Heated wire		✓	
Exhalation valve	✓	✓	✓
Pressure monitoring line	✓	✓	✓
Water trap			1

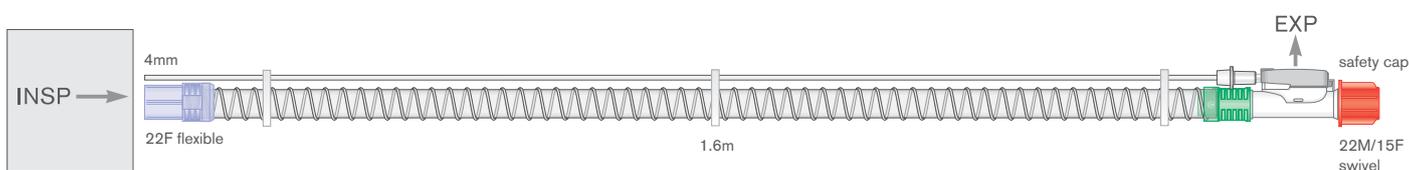
For Breas® Vivo50™ ventilator



illustration

Code	5194000	5194850	5113006	5200001	5209005
Box qty.	25	12	20	20	16
Tube size	22mm	22mm	22mm	22mm	22mm
Length	1.8m	1.6m	1.6m	1.6m	1.6m
Extra limb		0.5m	0.4m		0.5m
Dual limb				✓	✓
Heated wire		✓			
Exhalation valve	✓	✓	✓	✓	✓
Water trap			1		2

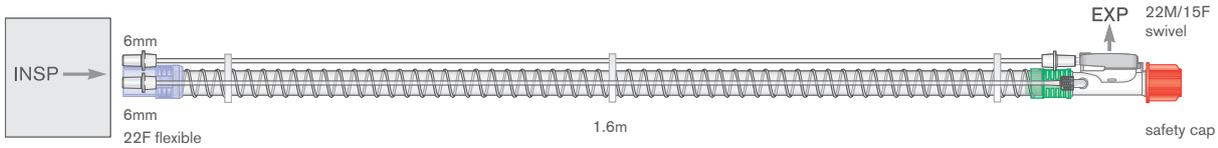
For Air Liquide® Medical Systems Monnal®T50 ventilator



illustration

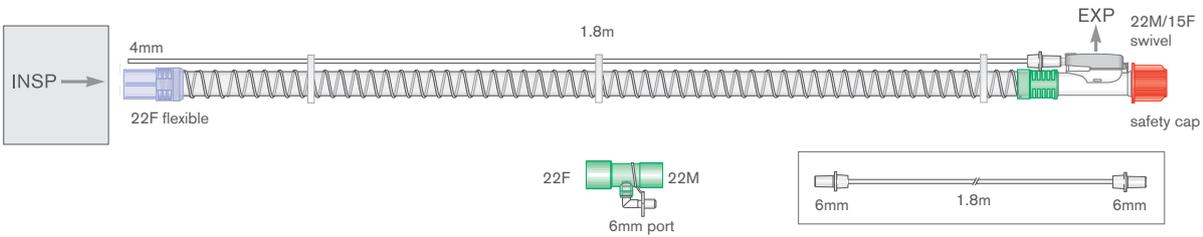
Code	5113018	5113019
Box qty.	25	15
Tube size	22mm	15mm
Length	1.6m	1.6m

Universal 22mm Smoothbore breathing systems with exhalation valve



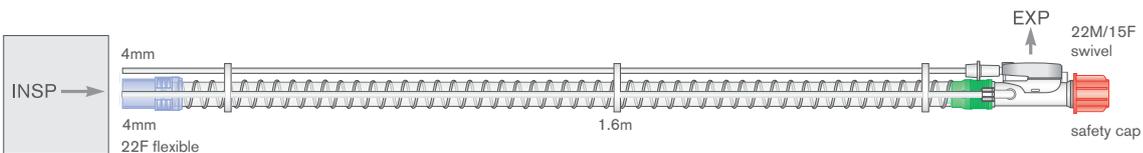
illustration

Code	5183000	5113010
Box qty.	10	20
Length	1.6m	1.6m
Extra limb		0.4m
Pressure monitoring line	✓	✓
Water trap		1

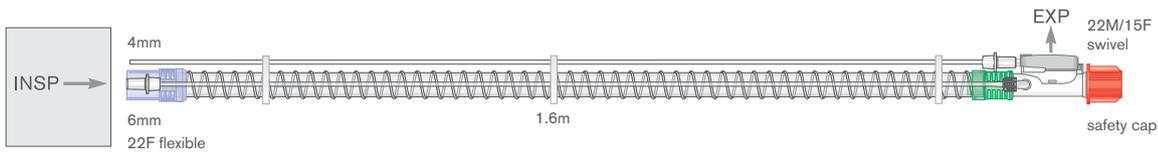


illustration

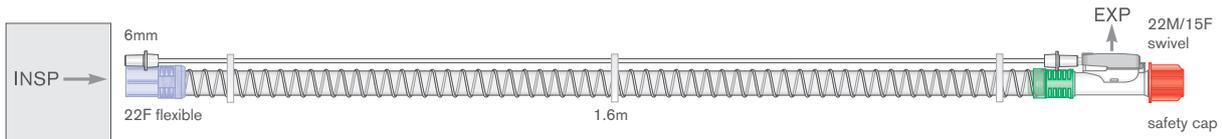
Code	5113005	5113006
Box qty.	25	20
Length	1.6m	1.6m
Extra limb		0.4m
Kit for pressure monitoring	✓	✓
Water trap		1



Code	5113077
Box qty.	25
Length	1.6m
Pressure monitoring line	✓



Code	5183064
Box qty.	10
Length	1.6m
Pressure monitoring line	✓

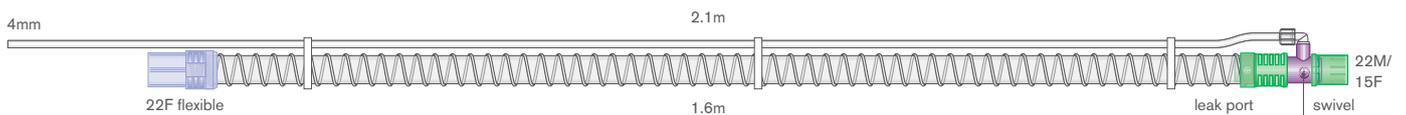


Code	5182000
Box qty.	10
Length	1.6m

22mm Smoothbore Bilevel breathing systems

Passive Smoothbore Bilevel breathing systems offer the perfect solution for dry high flow gas.

Note: For a low resistance breathing filter option for use with these systems, please see Flo-Guard on page 27.

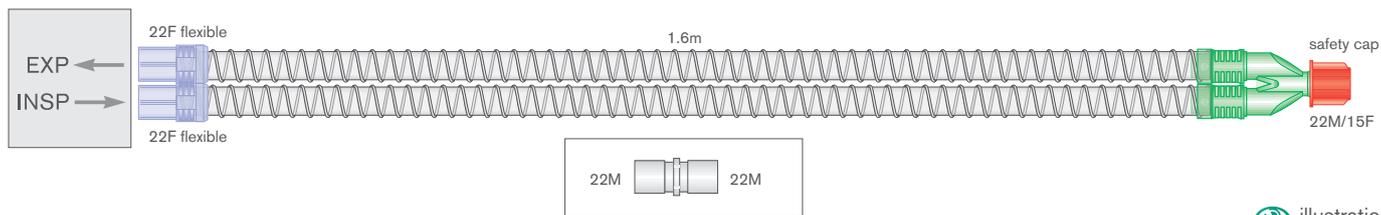


illustration

Code	5804000	5805000 <small>most popular</small>	5808000	5809000	5811000
Box qty.	30	25	25	15	25
Length	1.8m	1.6m	1.6m	1.6m	1.6m
Monitoring line		✓	✓ (double connection)	✓	✓
Leak port	✓	✓	✓	✓	
Extra Limb				0.5m	
Water Trap				1	
Low resistance filter				✓	

Smoothbore breathing systems

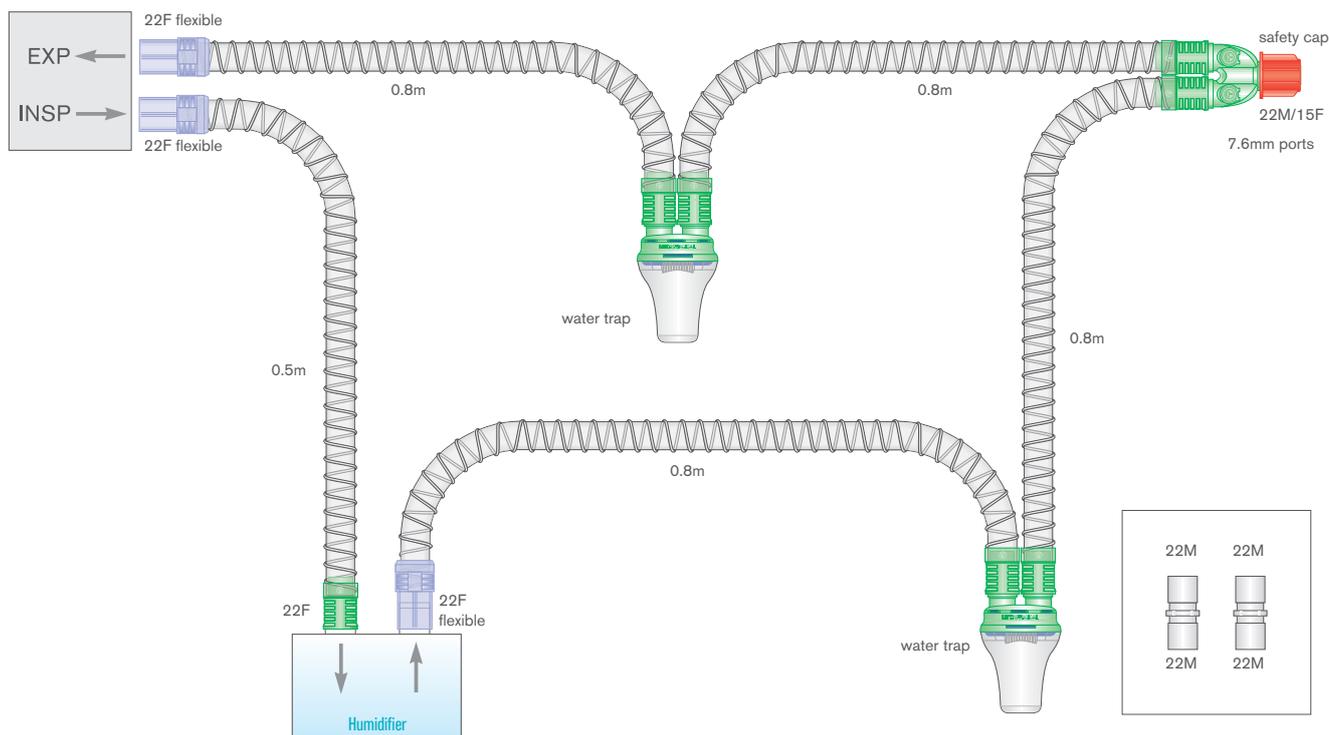
22mm Smoothbore breathing systems



illustration

Code	5000000	5000005	5200000	5001000
Box qty.	12	12	20	12
Length	1.6m	1.6m	1.6m	2.0m
Ported Y-piece		✓		
Non PVC			✓	

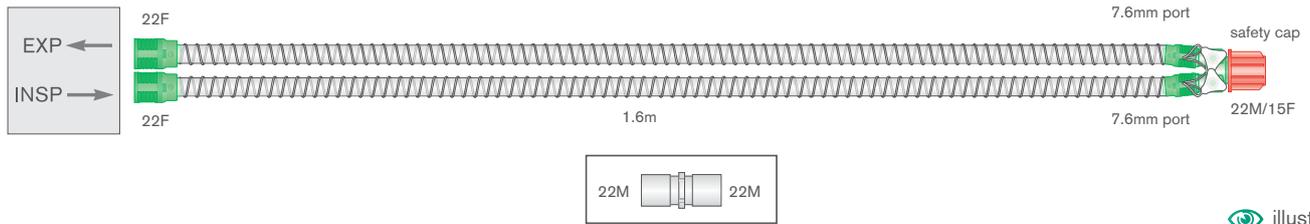
22mm Smoothbore breathing systems with water trap



illustration

Code	5009000	5009001	5007003	5209000	5207000
Box qty.	10	10	10	16	18
Length	1.6m	2.0m	1.6m	1.6m	1.6m
Extra limb	0.5m	0.5m		0.5m	
Water trap	2	2	1	2	1
Ported Y-piece	✓	✓		✓	✓
Non PVC				✓	✓

15mm Smoothbore breathing systems

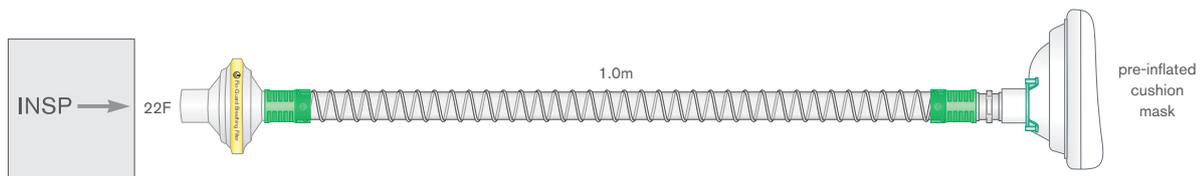


illustration

Code	5016000	5500000	5513000	5009009	5024000
Box qty.	15	20	12	10	10
Length	1.6m	1.6m	1.6m	2.0m	2.4m
Extra limb			0.4m	1.0m	
Ported Y-piece		✓	✓		
Water trap			2	2	

CoughAssist™ breathing systems

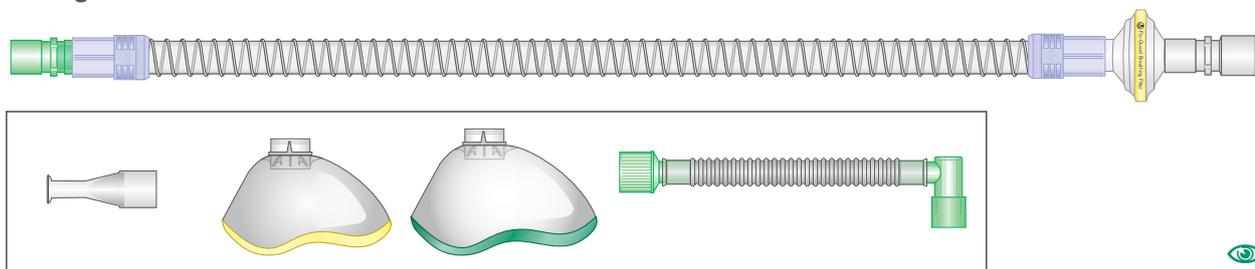
For CoughAssist™ ventilator.



illustration

Code	5001005	5001006	5001007
Box qty.	10	10	10
Length	1.0m	1.0m	1.0m
Mask	✓	✓	✓
Size	Large adult	Medium adult	Small adult
Low resistance filter	✓	✓	✓

For CoughAssist™ ventilator.



illustration

Code	2000098	2000099	2000213
Box qty.	8	20	8
Length	1.2m	1.2m	1.2m
Mask	✓		
Size	Large adult		Medium & Large adult
Low resistance filter	✓	✓	✓
Mouthpiece	✓		✓

QuadraLite™ mask



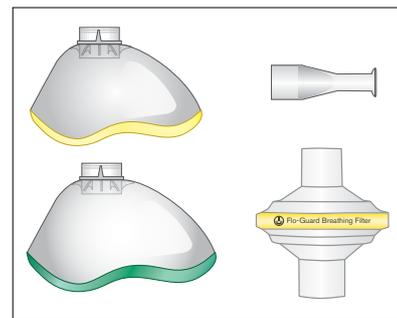
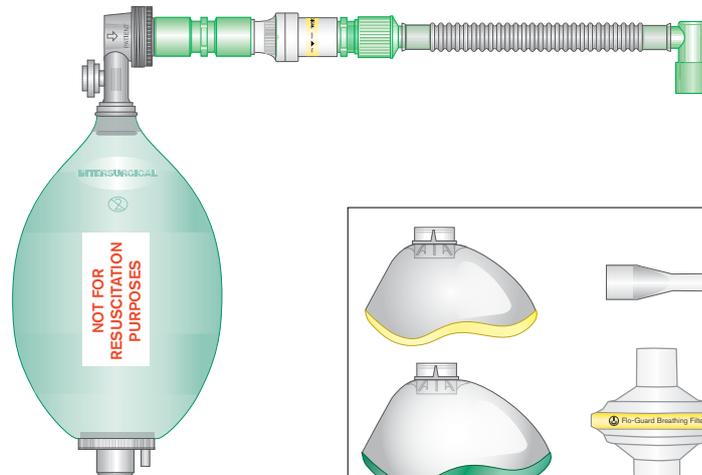
www.intersurgical.com/info/quadralite



Code	7194000	7193000	7192000	7191000
Box qty.	35	35	25	30
Patient size	Large adult	Medium adult	Small adult	Infant
Colour code				
eco	✓	✓	✓	✓

Lung volume recruitment kits

For use in lung volume expansion.

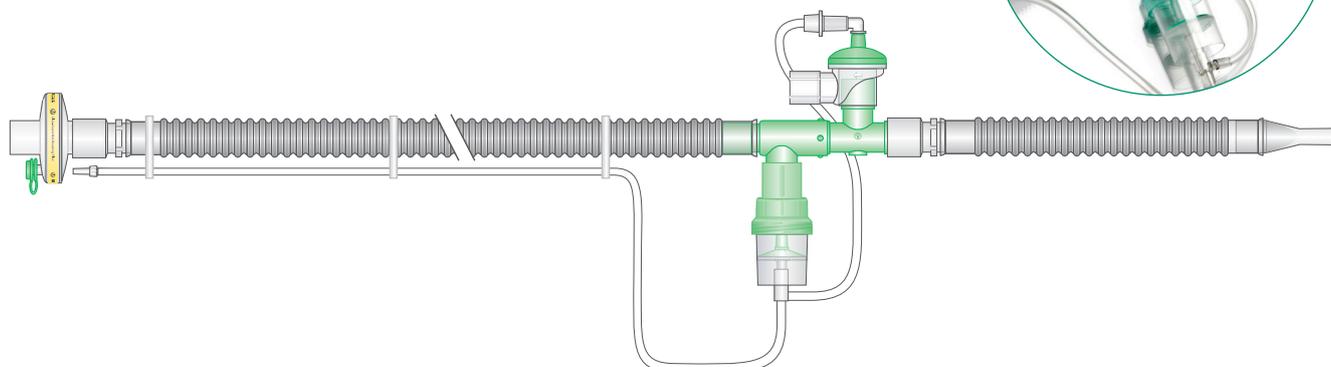


illustration

Code	7152001	7152002	7153001
Box qty.	6	4	8
Mask			
Size		Medium & Large adult	Small & Medium adult
Mouthpiece	✓	✓	✓
Low resistance filter		✓	✓
Bag size	1.5 litre	1.5 litre	1 litre
Pressure relief valve		✓	✓

IPPB breathing systems

The IPPB systems are designed to be used with Intermittent Positive Pressure Breath machines for spontaneously breathing patients, to assist lung expansion, deliver aerosol therapy or to assist ventilation.

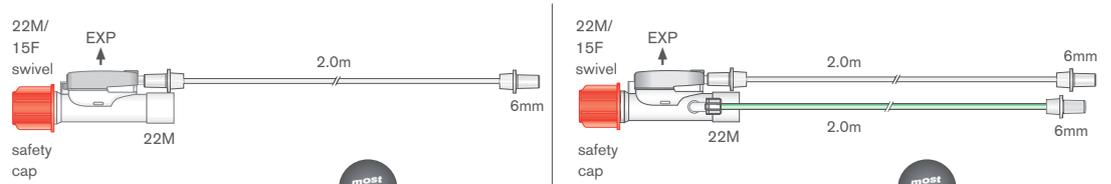


 illustration

Code	1414000	1415000	1415002  	1416000
Box qty.	20	20	20	20
Machine compatibility	Draeger® Inhalog™	BIRD®	BIRD®	Universal
Low resistance filter			✓	

Exhalation valve

Available for use in custom breathing systems. For differing tube lengths see page 6.



Code	5113012	5113013
Box qty.	10	10
Monitoring/oxygen line		✓

Humidification chamber



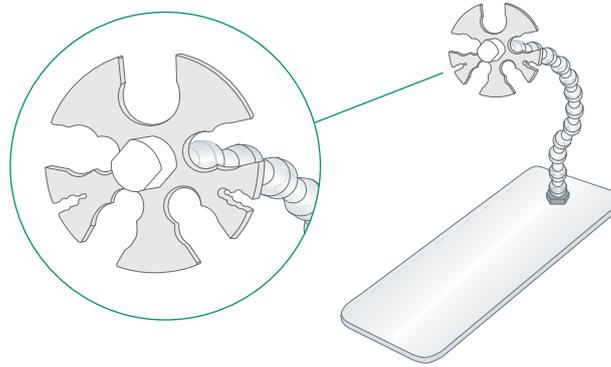
Code	2340000
Box qty.	30
Manual fill	✓
Low volume	✓

Water traps



Code	1912000	1911000
Box qty.	50	55
Volume	125ml	70ml
Self sealing	✓	✓

Tube support



Code	5904000
Box qty.	1
New "daisy" design	✓
Size	30mm / 22mm / 15mm

Tube management clips system

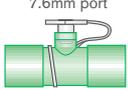
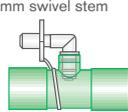
The self adhesive holder allows the user to store breathing systems using either the red safety cap or the single or dual tube clips safely and hygienically.

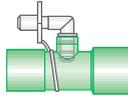
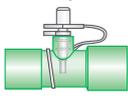
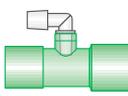


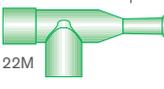
Code	2316000 
Box qty.	12
For system	Single or dual limb

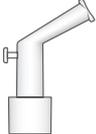
Connectors

22mm straight connectors

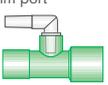
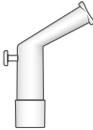
						
	22M 22M	22M 22M	22M 22M	22M 22M	22M 22F	22M 22F
Code	1960000	1966000	1965000	1966001	1961000	1964000
Box qty.	40	25	25	25	40	25
Connection	22M-22M	22M-22M	22M-22M	22M-22M	22M-22F	22M-22F
7.6mm port		✓				✓
6mm swivel stem			✓			
MDI port				✓		

						
	22M 22F	22M 22F	22M 22F	22M 22M/15F	22M	22F 22F
Code	1963000	1964001	1977000	1969000	1968000	1967000
Box qty.	25	25	35	40	50	35
Connection	22M-22F	22M-22F	22M-22F	22M-22M/15F	22M	22F-22F
7.6mm port						
6mm swivel stem	✓					
MDI port		✓				
10mm swivel stem			✓			
6mm oxygen stem					✓	

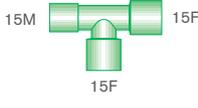
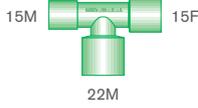
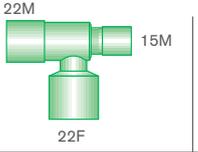
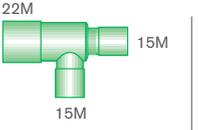
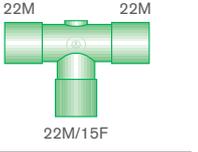
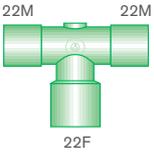
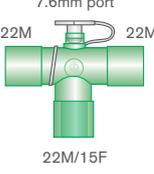
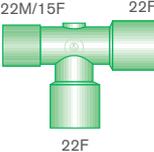
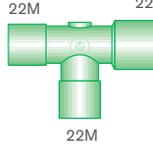
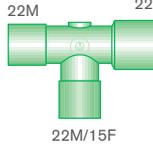
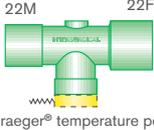
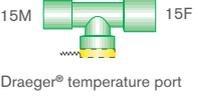
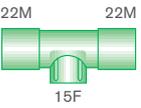
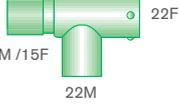
						
	22M 19M	22M 30M	22M 30F	22M	22F	22M
Code	1975000	1970000	1971000	1930000	1931000	1510000
Box qty.	50	35	25	40	35	75
Connection	22M-19M	22M-30M	22M-30F	22M	22F	22M-22M
Mouthpiece				✓	✓	✓

			
	22M/15F	22F safety cap	22F 6mm oxygen stem
Code	1938000	1978000	1568000
Box qty.	15	45	100
Connection	22M/15F	22F	22F
6mm oxygen stem			✓
Mouthpiece	✓		
Safety cap		✓	

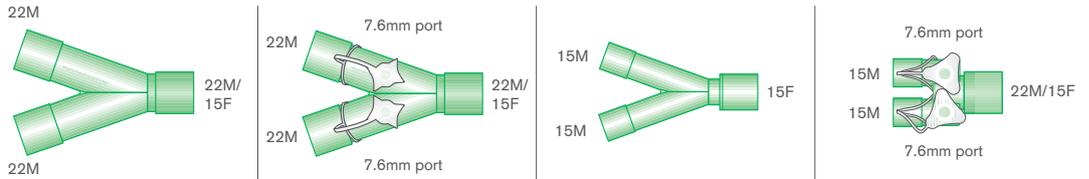
15mm straight connectors

	 15M 15M	 15M 15F	 15M 15F 7.6mm port	 15M 15F MDI port	 15M 15F 6mm port	 15F 15F
Code	1945000	1946000	1947000	1947001	1948000	1949000
Box qty.	40	75	40	25	50	25
Connection	15M-15M	15M-15F	15M-15F	15M-15F	15M-15F	15F-15F
7.6mm port			✓			
6mm swivel stem					✓	
MDI port				✓		
	 15M 22M	 15M 22M	 22F 15M	 22F 15F	 22M/15F 6.5mm large oxygen stem	 15M
Code	1943000	1976000	1962000	1979000	1974000	1937000
Box qty.	40	40	40	75	45	20
Connection	15M-22M	15M-22M	22F-15M	22F-15F	22M/15F	15M
6.5mm large oxygen stem					✓	
Mouthpiece						✓

T-piece connectors

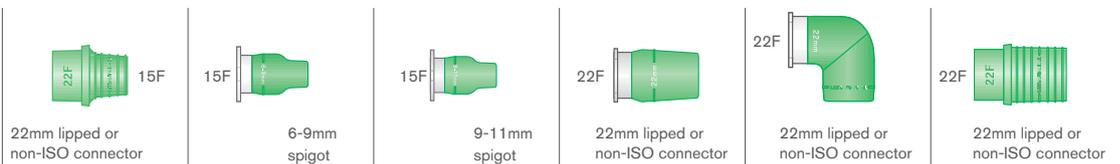
	 15M 15F 15F	 15M 15F 22M	 22M 15M 22F	 22M 15M 15M	 22M 22M 22M/15F
Code	1802000	1800000	1989000	1988000	1980000
Box qty.	40	35	25	40	25
Connection	15M-15F-15F	15M-15F-22M	22M-15M-22F	22M-15M-15M	22M-22M-22M/15F
	 22M 22M 22F	 22M 22M 22M/15F 7.6mm port	 22M/15F 22F 22F	 22M 22F 22M	 22M 22F 22M/15F
Code	1981000	1984000	1983000	1982000	1985000
Box qty.	20	25	20	20	20
Connection	22M-22M-22F	22M-22M-22M/15F	22M/15F-22F-22F	22M-22F-22M	22M-22F-22M/15F
7.6mm port		✓			
	 22M 22F 22M Draeger® temperature port	 15M 15F 15F Draeger® temperature port	 22M 22M 15F	 22M/15F 22F 22M	
Code	1987000	1801000	1959000	1986000	
Box qty.	25	40	30	20	
Connection	22M-22F	15M-15F	22M-22M-15F	22M/15F-22F-22M	
Draeger® temperature port	✓	✓			

Y-pieces connectors



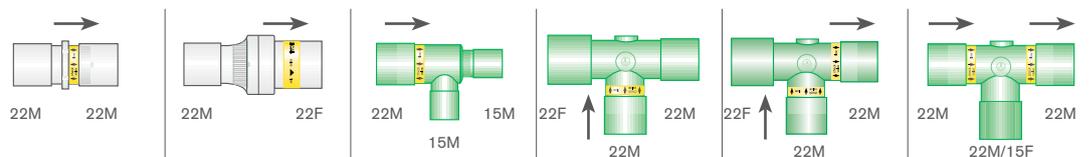
Code	1900000	1901000	1902000	1903000
Box qty.	20	15	25	25
Connection	22M-22M/15F-22M	22M-22M/15F-22M	15M-15F-15M	15M-22M/15F-15M
7.6mm port		✓		✓
Code	1926000	1927000	1928000	1929000
Box qty.	20	15	15	15
Connection	22M-22M/15F-22M	22M-22M/15F-22M	22M-22M/15F-22M	22M-22M/15F-22M
7.6mm port		✓		
Parallel	✓	✓		
Luer lock port			✓	✓
Swivel			✓	✓ Double

Elastomeric soft connectors



Code	1701000	1702000	1703000	1704000	1705000	1706000
Box qty.	40	50	50	35	25	35
Connection	15F	15F	15F	22F	22F	22F
22mm lipped or non-ISO connector	✓			✓	✓	✓
6-9mm spigot		✓				
9-11mm spigot			✓			

Directional valves



Code	1950000	1921000	1955000	1952000	1953000	1954000
Box qty.	40	75	25	25	25	25
Connection	22M-22M	22M-22F	22M-15M-15M	22F-22M-22M	22F-22M-22M	22M-22M-22M/15F



Breathing filters, HMEs, HMEFs and patient connections

A range of products designed for the protection of the patient and equipment. Patient connectors are available with a variety of options.

- Breathing filters
- Heat and Moisture Exchangers (HMEs)
- Heat and Moisture Exchanging Filters (HMEFs)
- Elbows
- Catheter mounts



Why use a Breathing Filter?

Breathing filters are designed to prevent microbial cross contamination which can occur via patients, ventilator breathing systems and respiratory equipment. Their use has been widely recognised as an effective method of reducing cross contamination and has been recommended by a number of Medical Associations⁽¹⁾.

The threat to patients is varied

Patients requiring respiratory support at home may be exposed to the risk of cross contamination from the equipment, breathing systems or the environment. Documented areas of concern regarding infection from breathing systems include *Hepatitis C*, *Mycobacterium tuberculosis*, blood in sputum and the SARS virus.

Long term ventilated patients may be at risk from pseudomonal growth in the breathing system and in water bath humidifiers. The strategic use of an effective breathing filter protects both the patient and equipment bi-directionally, helping to prevent infection.

Effective use of filters in the homecare environment can also help protect the respiratory equipment which the patient relies upon, as well as helping to optimise its function and helping to prolong its life.

Effective Validated Performance

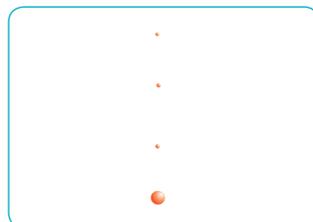
The Intersurgical range of breathing systems has been designed for the protection of the patient, breathing system and equipment. They have been independently tested and proven to be highly efficient in preventing the passage of bacteria and viruses, which would result in contamination.

The wide and varied product range offers:

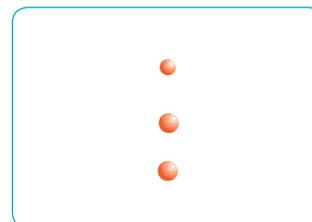
- Validated bacterial and viral filtration efficiency⁽²⁾
- Proven Filtration against TB and *Hepatitis C*
- Choice of patient connections – optimising patient comfort
- Compatible with respiratory equipment
- Lightweight – Improving patient comfort
- Low resistance to flow

Potential infectious viruses

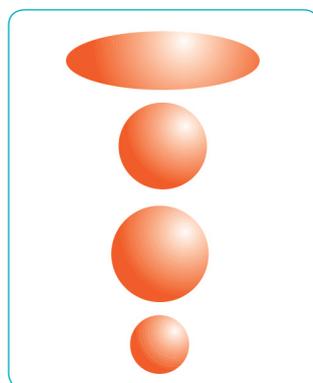
[Particle Sizes μ microns]



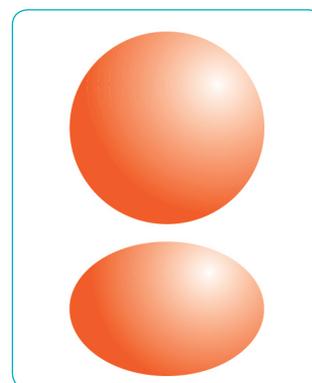
Coliphage T1 [0.017 μ]
MS-2 coliphage [0.02 μ]
Hepatitis C [0.03 μ]
Adenovirus [0.07 μ]



HIV [0.11 μ]
Cytomegalovirus (CMV) [0.1 μ]
Orthomyxovirus [0.1 μ]



Mycobacterium tuberculosis
 [0.3 μ x 1.0 μ minimum size]
Serratia marcescens [0.45 μ]
Pseudomonas aeruginosa
 [0.5 μ]
Brevundimonas diminuta
 [0.3 μ]



Staphylococcus aureus [1.0 μ]
Bacillus subtilis [1.0 μ x 0.7 μ]

Breathing filters

Designed for the protection of the patient, the breathing system and the equipment.

Our range of breathing filters is designed to meet all patient and user requirements.

The range:

- **Filta-Guard™**: high efficiency filter
- **Clear-Guard™ Midi**: low volume filter
- **Clear-Guard™ 3**: cost-effective filter with ergonomic housing
- **Inter-Guard**: sterile filter
- **Hydro-Guard Mini Mk.II**: pleated media hydrophobic filter



	Filta-Guard™	Clear-Guard™ Midi	Clear-Guard™ 3	Inter-Guard	Hydro-Guard Mini Mk.II
					
Code	1944000	1644007	1544007 <small>most POPULAR</small>	1344007S	1745000 <small>most POPULAR</small>
Box qty.	70	100	150	50	40
Luer lock port					✓
Bacterial and viral filtration efficiency	>99.999%	>99.9%	>99.99%	>99.999%	>99.999%
Resistance to flow at 30L/min	1.1cm H ₂ O	0.8cm H ₂ O	0.9cm H ₂ O	0.9cm H ₂ O	1.3cm H ₂ O
Resistance to flow at 60L/min	2.1cm H ₂ O	1.7cm H ₂ O	2.2cm H ₂ O	2.0cm H ₂ O	2.7cm H ₂ O
Compressible volume	67ml	34ml	59ml	41ml	63ml
Weight	40g	18g	27g	22g	30g
Minimum tidal volume	200ml	100ml	200ml	150ml	200ml
Sterile				✓	

Filters for equipment protection

Designed for protection of equipment and the environment from contamination at the machine end.

Air-Guard Clear



Code	1790000
Box quantity	50
Bacterial filtration efficiency	99.9999%
Viral filtration efficiency	99.9999%
Resistance to flow at 30L/min	0.7cm H ₂ O
Resistance to flow at 60L/min	1.7cm H ₂ O
Compressible volume	120ml
Weight	56g

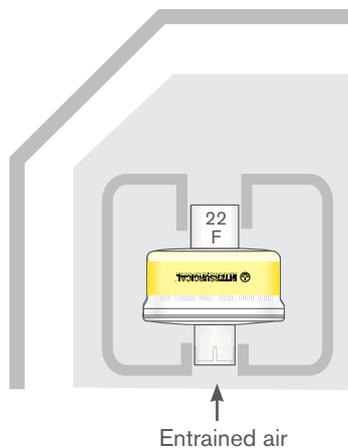
The Air-Guard Clear filter is a hydrophobic pleated membrane filter designed for the protection of oxygen concentrator machines and other respiratory equipment.

The Air-Guard Clear filter will function as a microbial filter when used to protect oxygen concentrator machines or when used in breathing systems to protect equipment from contamination. Its filtration effectiveness has been tested in accordance with the test method described in ISO EN 23328 - Part 1. It offers HEPA performance and has been independently tested to determine effectiveness against viruses and bacteria.

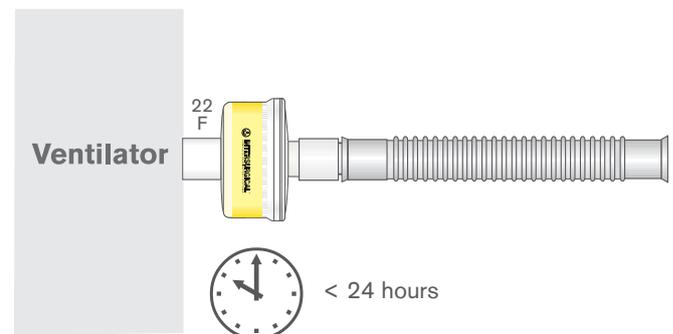
This product excels as a bacterial and viral filter and can be used as such in a respiratory system providing the maximum period of use is 24 hours, which corresponds to the usual protocols and procedures concerning breathing filters.

Please note: This product is contraindicated for use at the patient connection of the breathing system.

Oxygen concentrator protection



Respiratory system protection



Flo-Guard

Low resistance filter



Code	1 690000
Box quantity	50
Bacterial filtration efficiency	99.99%
Viral filtration efficiency	99.99%
Resistance to flow at 30L/min	0.4cm H ₂ O
Resistance to flow at 60L/min	0.8cm H ₂ O
Resistance to flow at 90L/min	1.4cm H ₂ O
Resistance to flow at 120L/min	2.0cm H ₂ O
Resistance to flow at 150L/min	2.7cm H ₂ O
Resistance to flow at 180L/min	3.4cm H ₂ O
Resistance to flow at 210L/min	4.3cm H ₂ O
Resistance to flow at 240L/min	5.1cm H ₂ O
Compressible volume	80ml
Weight	28g

The Flo-Guard breathing filter is designed to be used at the machine-end of a breathing system to protect the patient and machine against cross contamination, while maintaining a low resistance across a wide range of flow rates.

The low resistance makes it an ideal filter for use in both the hospital and home setting, where high flow rates may potentially be used; this includes CPAP, Bilevel and CoughAssist™ applications.

The Flo-Guard provides an excellent bacterial and viral filtration efficiency whilst offering a low resistance to flow even at very high flow rates.

Electrostatic filter media provides an excellent filtration efficiency

Large surface area to reduce resistance to flow

Clear housing for good visibility

Conical shape to aid airflow



Heat and Moisture Exchangers (HMEs)

In normal respiration the upper airway helps to warm and humidify inspired air, and to retain the warmth and moisture contained in expired air. During inspiration, even cold or dry air is typically heated to 37°C and fully saturated, containing 44mg H₂O per litre. In mechanical ventilation or anesthesia the patient's upper airway may be bypassed by the introduction of a tracheal tube. As a result the patient's lungs may be confronted with dry inspired gas.

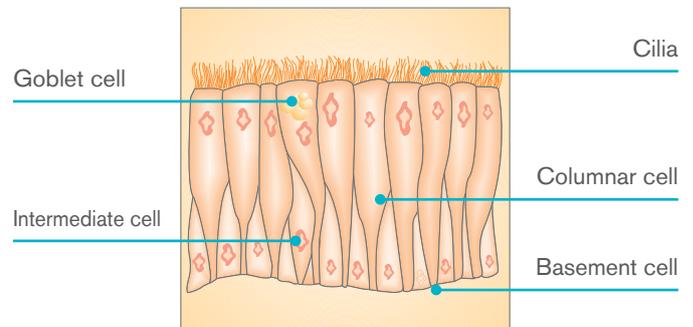
The drying and cooling effect is exacerbated by the presence of the tracheal tube. During expiration, the normal process of absorption of heat and moisture by the upper airway is lost.



Prolonged exposure to dry ventilatory gases can lead to:

- Localized inflammation of the trachea.
- A reduction in ciliary function
- Retention and thickening of secretions
- Lowering of patient temperature
- Reduction in cardiopulmonary function
- Increased risk of tracheostomy tube occlusion

Respiratory epithelium adversely affected by heat & moisture loss



Hydro-Therm™ and Hydro-Therm™ 3

	Hydro-Therm™ 22M/15F 15M <small>most popular</small>	Hydro-Therm™ 3 22M/15F 22F/15M
Code	1850000	1560000
Box qty.	20	150
Luer lock port		✓
Moisture return	30mg H ₂ O/L	31.6mg H ₂ O/L
Resistance to flow at 30L/min	0.7cm H ₂ O	0.2cm H ₂ O
Resistance to flow at 60L/min	1.9cm H ₂ O	0.8cm H ₂ O
Compressible volume	15ml	59ml
Weight	11g	31g
Minimum tidal volume	50ml	200ml

Hydro-Trach™ T Mk.II

Designed for use on tracheostomised patients.

The Hydro-Trach™ T Mk.II is a heat and moisture exchange device designed for use with spontaneously breathing patients in order to reduce loss of heat and moisture during respiration.

When a patient has a tracheostomy, the normal system of temperature and moisture maintenance is bypassed by the insertion of the tracheostomy tube.

The possible loss of heat and moisture can lead to serious complications, notably damage to cilia and the mucous glands. This may result in retention of sputum and atelectasis, production of mucus plugs and potential tubal occlusion.

The Hydro-Trach™ T Mk.II has a number of unique features which make it an ideal product for prolonged use with spontaneously breathing patients.

Features and benefits

Clear housing

for easy visual inspection for possible secretion build up

Anti-Occlusion mechanism

allows the HME element to partially dislodge in the event of total occlusion or vigorous cough



Clipped suctioning port

allows for easier suctioning without removal of the device

Small and lightweight

reduces the pull on the patient connection

An integral swivel oxygen connector

allows for connection of the oxygen tube without the need of a separate oxygen adapter, which can be easily folded away when not in use



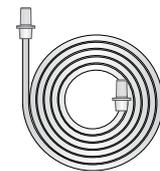
15F



most
POPULAR



15F



1.8m

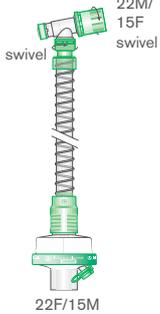
Code	1873000	1874000
Box qty.	25	40
Oxygen connector	✓	✓
Moisture return	26mg H ₂ O/L	26mg H ₂ O/L
Resistance to flow at 30L/min	0.2cm H ₂ O	0.2cm H ₂ O
Resistance to flow at 60L/min	0.7cm H ₂ O	0.7cm H ₂ O
Compressible volume	19ml	19ml
Weight	8g	8g
Minimum tidal volume	50ml	50ml
O ₂ tube		✓
Suction port	✓	✓

Heat and Moisture Exchanging Filters (HMEFs)

The range of Heat and Moisture Exchanging Filters (HMEFs) combines the filtration efficiency of dedicated breathing filters with optimum moisture return.

- **Filta-Therm™**: high efficiency HMEF
- **Clear-Therm™ and Clear-Therm Plus**: mid-range HMEF
- **Clear-Therm™ Midi**: low volume HMEF
- **Clear-Therm™ 3**: cost-effective HMEF with ergonomic housing
- **Inter-Therm™**: sterile HMEF
- **Inter-Therm™ Mini**: sterile HMEF for paediatrics
- **Clear-Therm™ Mini**: HMEF for paediatrics



	Filta-Therm™	Inter-Therm™	Inter-Therm™	Inter-Therm™ Mini	Inter-Therm™ Mini
					
Code	1942000	1341007S <small>most POPULAR</small>	1341580S	1331000S	1332000S
Box qty.	70	50	50	50	50
Luer lock port			✓	✓	✓
Moisture return	29.1mg H ₂ O/L	32mg H ₂ O/L	32mg H ₂ O/L	30mg H ₂ O/L	30mg H ₂ O/L
Bacterial and viral filtration efficiency	>99.999%	>99.999%	>99.999%	>99.99%	>99.99%
Resistance to flow at 30L/min	1.2cm H ₂ O	1.6cm H ₂ O	1.6cm H ₂ O	2.1 cm H ₂ O	2.2cm H ₂ O
Resistance to flow at 60L/min	3.0cm H ₂ O	3.0cm H ₂ O	3.5cm H ₂ O	N/A	N/A
Compressible volume	66ml	56ml	94ml	28ml	29ml
Weight	42g	30g	58g	20g	19g
Minimum tidal volume	200ml	150ml	300ml	75ml	75ml
Double swivel elbow			✓		
Smoothbore catheter mount			✓		
Double flip top cap			✓		
Fixed elbow					✓
Sterile		✓	✓	✓	✓

Clear-Therm™ Midi Clear-Therm™ Plus Clear-Therm™ Clear-Therm™ Mini Clear-Therm™ 3 Clear-Therm™ 3



Code	1641000	1841001 <small>most POPULAR</small>	1841015	1831000	1541000 <small>most POPULAR</small>	1541007
Box qty.	100	35	20	40	150	150
Luer lock port	✓	✓	✓	✓	✓	
Moisture return	23mg H ₂ O/L	32mg H ₂ O/L	32mg H ₂ O/L	32mg H ₂ O/L	30.6mg H ₂ O/L	30.6mg H ₂ O/L
Bacterial and viral filtration efficiency	>99.9%	>99.99%	>99.99%	99.99%	>99.99%	>99.99%
Resistance to flow at 30L/min	1.0cm H ₂ O	1.0cm H ₂ O	1.3cm H ₂ O	1.6cm H ₂ O	1.0cm H ₂ O	1.0cm H ₂ O
Resistance to flow at 60L/min	2.2cm H ₂ O	2.4cm H ₂ O	3.6cm H ₂ O	N/A	2.6cm H ₂ O	2.6cm H ₂ O
Compressible volume	34ml	61ml	87-111ml	28ml	60ml	59ml
Weight	19g	32g	51g	22g	30g	29g
Minimum tidal volume	100ml	200ml	300ml	75ml	200ml	200ml
Double swivel elbow			✓			
Superset catheter mount			✓			
Double flip top cap			✓			

Elbows

A range of double swivel or fixed connectors, in a large variety of configurations.

'Flip top' and double 'Flip top' cap: How do they work?

7.6mm port and flip top cap

For connection of all standard 7.6mm probes or for suctioning



Double flip top cap with seal

Bronchoscopy and suction ports in one patient connection

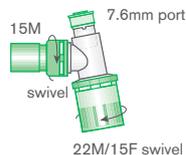


First tab open – bronchoscope mode with seal



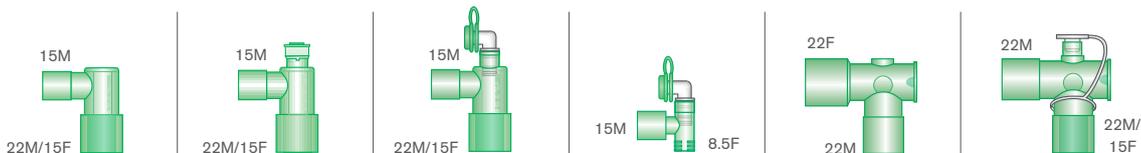
Second full cap open – suction mode

Double swivel elbows

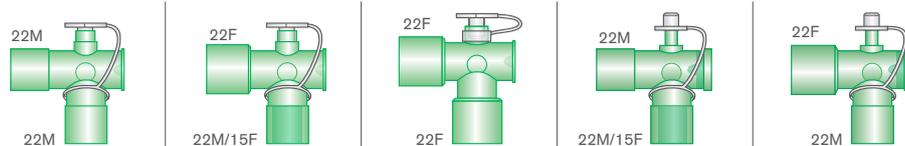


Code	1897000	1899000	1898000
Box qty.	35	35	35
7.6mm port		✓	✓
9.5mm port			✓
Flip top cap		✓	
Double flip top cap			✓

Fixed elbows



Code	1997000	1993000	2714000	1883000	1992000	1995000
Box qty.	30	30	25	70	25	25
Luer lock port			✓	✓		
Flip top cap		✓				
7.6mm port		✓				✓



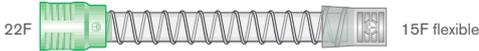
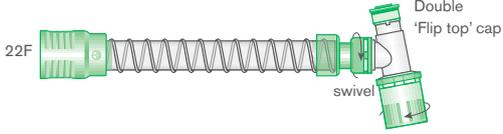
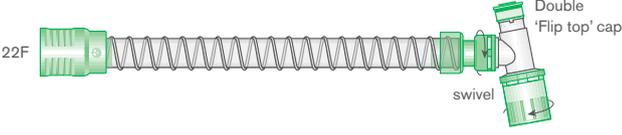
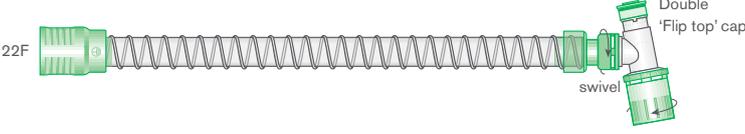
Code	1892000	1893000	1891000	1990000	1991000
Box qty.	25	25	25	25	20
7.6mm port	✓	✓	✓		
6mm stem				✓	✓

Catheter mounts

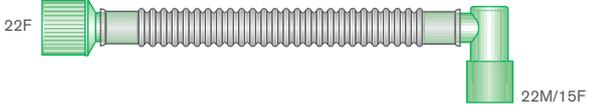
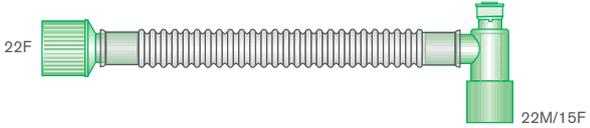
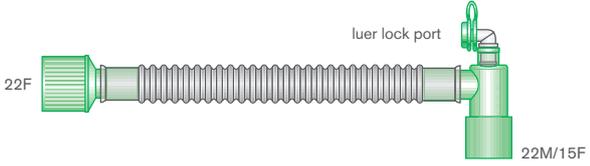
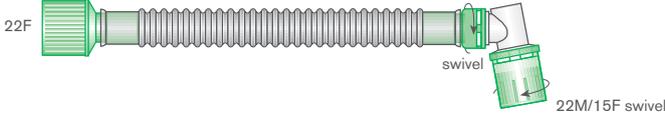
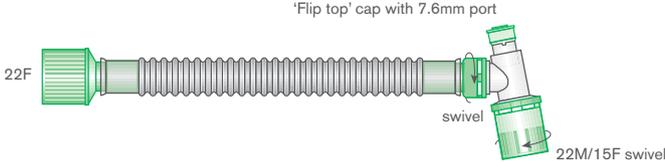
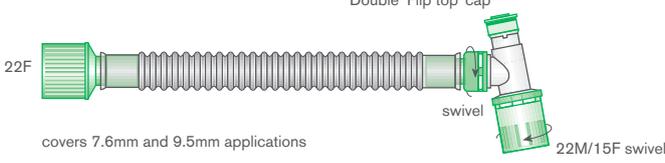
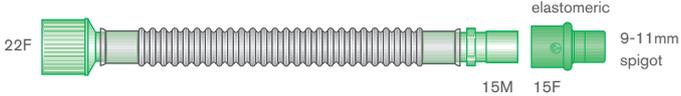
A comprehensive range of catheter mounts with Smoothbore, Flexible or Superset adjustable tube options.

Smoothbore catheter mounts

Smoothbore tubing gives improved ventilatory support with good flow characteristics, lower tubing compliance and clear, crush-resistant tubing.

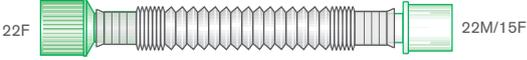
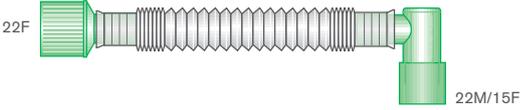
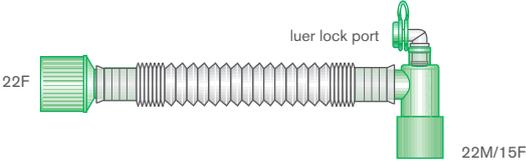
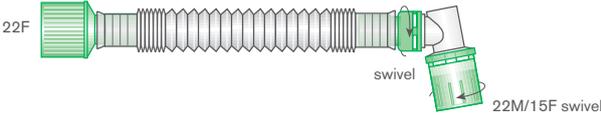
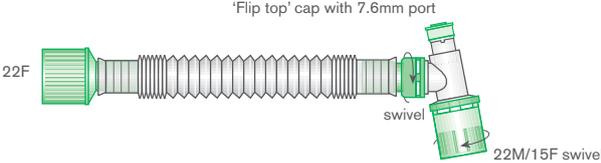
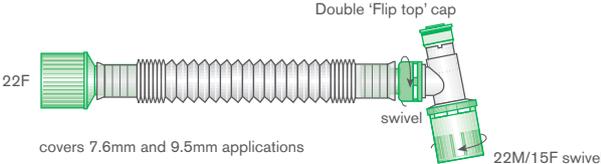
	Code	Box qty.	Length
 <p>22F 15F flexible</p>	5181000	75	120mm
 <p>22F 22M/15F swivel Double 'Flip top' cap swivel</p> <p>covers 7.6mm and 9.5mm applications</p>	5120000	50	120mm
 <p>22F 22M/15F swivel Double 'Flip top' cap swivel</p> <p>covers 7.6mm and 9.5mm applications</p>	5180000	50	180mm
 <p>22F 22M/15F swivel Double 'Flip top' cap swivel</p> <p>covers 7.6mm and 9.5mm applications</p>	5250000	50	250mm

Flexible catheter mounts

	Code	Box qty.	Length
 <p>22F 22M/15F</p>	3511000	50	170mm
 <p>22F 22M/15F</p>	3501000	50	170mm
<p>'Flip top' cap with 7.6mm port</p>  <p>22F 22M/15F</p>	3508000	50	170mm
<p>luer lock port</p>  <p>22F 22M/15F</p>	3515000	40	170mm
 <p>22F 22M/15F swivel</p>	3506000	50	170mm
<p>'Flip top' cap with 7.6mm port</p>  <p>22F 22M/15F swivel</p>	3516000	50	170mm
<p>Double 'Flip top' cap</p>  <p>covers 7.6mm and 9.5mm applications</p> <p>22F 22M/15F swivel</p>	3505000	50	170mm
<p>nasal catheter mount</p>  <p>22F 15M 15F 9-11mm spigot</p>	3517000	50	170mm

Superset catheter mounts

The Superset range of catheter mounts have a 'concertina' design for total positioning control. Deadspace can be adjusted from 20ml to 40ml (code 3504: 15-36ml) and length from 70mm to 150mm (excluding connectors).

	Code	Box qty.	Length
 <p>22F 22M/15F</p>	3504000	75	70-150mm
 <p>22F 22M/15F</p>	3502000	75	70-150mm
 <p>22F 22M/15F</p> <p>luer lock port</p>	3514000	75	70-150mm
 <p>22F 22M/15F swivel</p> <p>swivel</p>	3512000	75	70-150mm
 <p>22F 22M/15F swivel</p> <p>'Flip top' cap with 7.6mm port</p> <p>swivel</p>	3520000	75	70-150mm
 <p>22F 22M/15F swivel</p> <p>Double 'Flip top' cap</p> <p>swivel</p> <p>covers 7.6mm and 9.5mm applications</p>	3521000	75	70-150mm



Oxygen & aerosol therapy

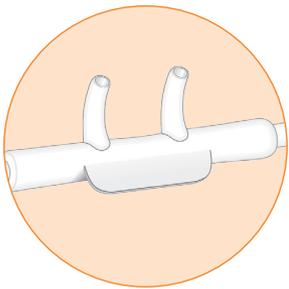
A range of products dedicated to oxygen delivery, humidification of oxygen and nebulisation of drugs.

- Oxygen therapy
- Aerosol therapy
- Nebulisation therapy



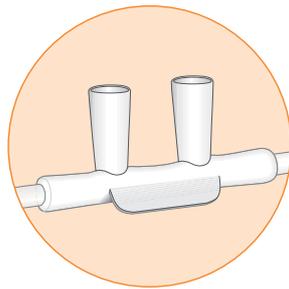
Nasal cannula

A range of nasal cannula with the option of straight, curved, flared, curved/flared prongs, with the addition of ear guards for improved patient comfort (see table below).



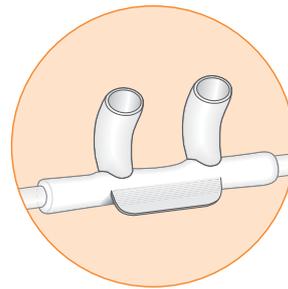
Curved prongs

Improved anatomical fit



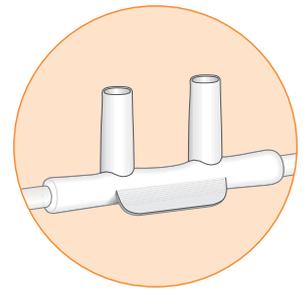
Flared prongs

Slows down the flow of oxygen



Curved / Flared prongs

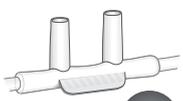
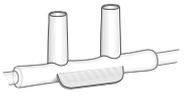
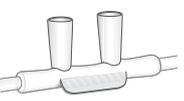
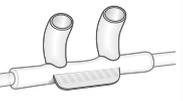
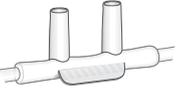
Combines the benefits of both the curved and flared designs



Straight prongs

The most popular choice

Adult nasal cannula

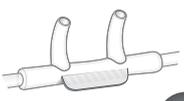
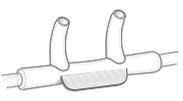
						
Code	1161000 <small>most popular</small>	1162000	1165000	1166000	1167000	1169000
Box qty.	50	20	50	50	50	100
Size	Adult	Adult	Adult	Adult	Adult	Adult
Prong type	Straight	Straight	Curved	Flared	Curved/Flared	Straight
Length	1.8m	5.0m	1.8m	1.8m	1.8m	0.5m
Tubing	✓	✓	✓	✓	✓	headset only

Adult nasal cannula with ear guards

Improved anatomical fit and patient comfort helping to reduce the pressure on the patient's ears.



www.intersurgical.com/info/homecare

		
Code	1165002 <small>most popular</small>	1165003
Box qty.	50	40
Size	Adult	Adult
Prong type	Curved	Curved
Length	2.1m	5.0m
Tubing	✓	✓
Ear guards	✓	✓

Phthalates free paediatric nasal cannula



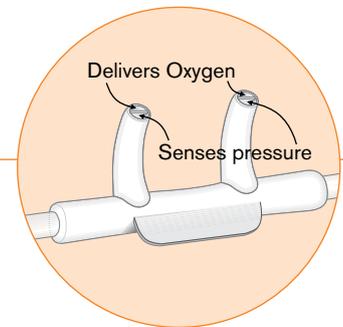
www.intersurgical.com/info/phthalates



Code	1160000	1160001	1160002
Box qty.	50	50	50
Size	Premature	Neonatal	Infant
Prong type	Curved	Curved	Curved
Length	2.1m	2.1m	2.1m
Tubing	✓	✓	✓
Phthalate free	✓	✓	✓

Satin Nasal cannula

Straight and curved prong plus dual lumen available with a soft satin finish for improved patient comfort. The satin material is proven to reduce pressure to areas of contact by 20% compared to a conventional cannula.



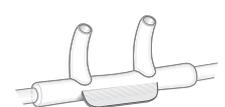
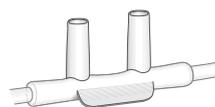
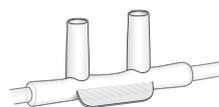
Dual lumen (Demand) Cannula

For use with portable Liquid Oxygen Systems to conserve the oxygen by supplying only when the patient inhales.



Code	1165011	1165012	1165013
Box qty.	50	50	50
Size	Adult	Adult	Adult
Prong type	Curved	Curved	Curved
Length	1.25m	1.8m	2.5m

Adult Satin Cannula



Code	1161020	1161021	1165020	1165021
Box qty.	50	50	50	50
Prong type	Straight	Straight	Curved	Curved
Length	1.8m	2.1m	1.8m	2.1m

eco Range

More comfortable for the patient
More comfortable for the environment

The Eco range of oxygen, aerosol and tracheostomy masks has been designed as part of our ongoing focus on sustainable development, which is an integral part of our ethos. The Eco range, unlike traditional masks, contains no PVC which provides an option with a significantly lower impact on the environment for future generations.

Improved patient comfort is paramount and the Eco range offers a lightweight and soft solution.

By utilising the latest technology we have combined two materials: the first forms the clear rigid shell of the mask, providing a strong lightweight body with good visibility; whilst the second, softer material forms the seal, providing a comfortable fit for a wide variety of face shapes.

We are able to provide a range of oxygen, tracheostomy and aerosol masks that are both comfortable for the patient and less harmful to the environment.

More products, more choice

Wherever you see the distinctive green logo you can be assured that we are working hard to lower the environmental impact of these products. Our current range of Eco products in the oxygen and aerosol range now includes:

- Eco Oxygen mask
- Eco Aerosol mask
- Eco High Concentration Oxygen Mask
- Cirrus™2 and Hot Top2 Adult Eco Mask Kits
- Tracheostomy Mask

Features and benefits



Non-PVC construction

64% reduced impact on the environment*

50% lighter than conventional PVC mask*

Patient comfort

Integral nose clip

Improved seal

Soft seal material

Improved level of comfort

Incurved seal design

Improved seal

Clear rigid shell

Resists deformation

Low elastic position

(adult only)

Eliminates trauma to the patient's ears

'On-chin' positioning

(adult only)

Better fit on a wider range of face shapes



For more information about our Eco range please visit:

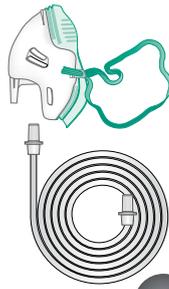


www.intersurgical.com/info/eco

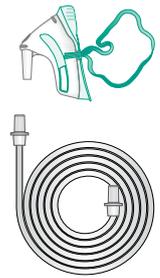
Medium concentration oxygen masks



www.intersurgical.com/info/homecare

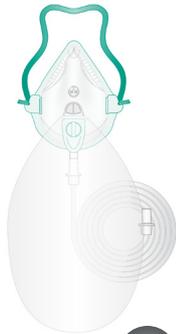


most POPULAR

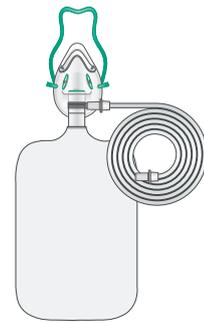


Code	1136000	1135000	1190015	1196015
Box qty.	55	40	42	40
Size	Adult	Adult	Paediatric	Paediatric
Tube length		2.1m		1.8m
eco	✓	✓	✓	✓

High concentration oxygen masks



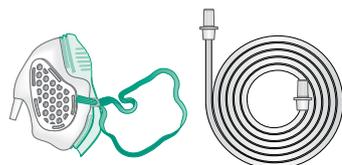
most POPULAR



Code	1181000	1192000
Box qty.	30	40
Size	Adult	Paediatric
Tube length	2.1m	2.1m
Safety vent	✓	
eco	✓	

FilitaMask™

Designed to reduce the risk to the carer.



Code	1145000
Box qty.	15
Size	Adult
eco	✓
Tube length	2.1m



Aerosol Masks



most POPULAR



Code	1188000	1198015
Box qty.	50	42
Size	Adult	Paediatric
eco	✓	✓

Tracheostomy masks

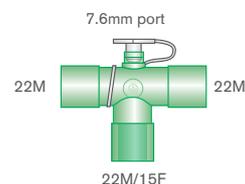
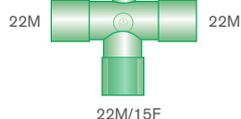


most POPULAR



Code	1200050	1206000
Box qty.	30	35
Size	Adult	Paediatric
eco	✓	

Tracheostomy T-pieces



Code	1980000	1984000
Box qty.	25	25
7.6mm port		✓

Silente Adjustable Venturi Valve

A new design for improved performance

The new Silente incorporates all the best features from the original design while improving the performance at high flows, as well as drastically reducing operating noise.

This new twin-jet design offers the user seven oxygen concentrations. The increased body diameter provides space for clear, widely spaced calibration and incorporates a 'pull-twist' action preventing accidental adjustment. The one-piece design eliminates the need to use more than one valve for all concentrations and there are no separate pieces to get lost or mislaid.

Ease of Use

The Intersurgical adjustable venturi valve is simple to use and has the following features and benefits:

- The appropriate flow range is selected to suit the desired concentration
- The outer ring with its pull-twist action selects the prescribed oxygen concentration
- A flow in L/min is printed above each concentration indicating the optimum flow meter setting

Precision

The Silente delivers precise oxygen concentrations. This accuracy is independent of the oxygen flow meter setting and is achieved using just one valve.

The concentration delivered is unaffected by the patient's breathing pattern provided that the optimum flow indicated on the valve is set on the oxygen flow meter.

Features and benefits

Large, well spaced calibration settings

Easy to read, minimises errors

Pull-Twist controls

Prevent inadvertent adjustment

One piece design

No parts to change or lose

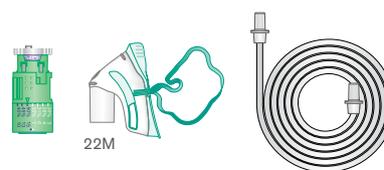
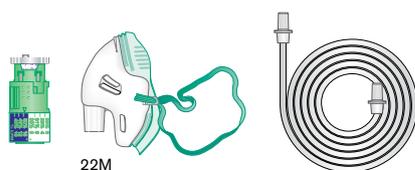
Extremely quiet

Much improved patient environment



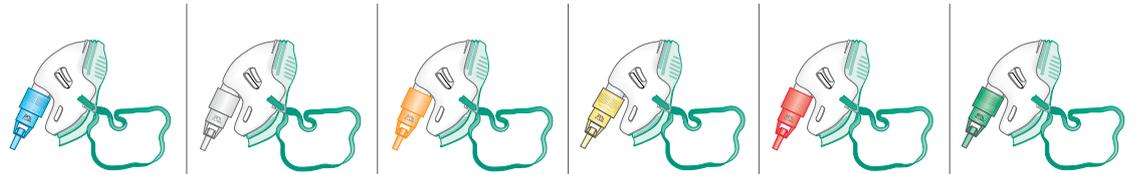
Silente Venturi basic mask kits

Designed to reduce noise levels.



Code	1137000	1138015
Box qty.	80	40
Size	Adult	Paediatric
Tube length	1.8m	1.8m
	✓	✓

Fixed Venturi Valve and Eco mask kits



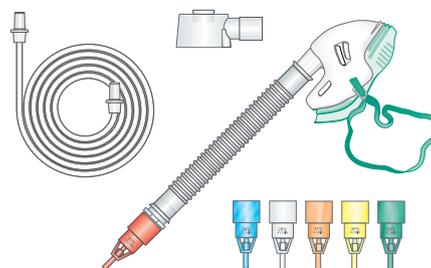
Code	1024080	1028080	1031080	1035080	1040080	1060080
Box qty.	40	40	40	40	40	40
Size	Adult	Adult	Adult	Adult	Adult	Adult
Oxygen %	24	28	31	35	40	60
eco	✓	✓	✓	✓	✓	✓

Fixed Venturi Valves



Code	0024000	0028000	0031000	0035000	0040000	0070000	0060000
Box qty.	50	50	50	50	50	50	50
Oxygen %	24	28	31	35	40	50	60

Adult Eco Mask Venturi Kit



Code	1107080
Box qty.	25
Tube length	1.8m
eco	✓

Cirrus™ 2 nebuliser and kits

Designed to minimise residual volume, operate horizontally and achieve 2.7 MMD.



www.intersurgical.com/info/homecare

Code	1402000	1453003 <small>most popular</small>	1454015	1200051 <small>most popular</small>
Box qty.	75	30	36	20
Size		Adult	Paediatric	Adult
Mask		Face	Face	Tracheostomy
Tube length		2.1m	1.8m	1.8m
eco		✓	✓	✓

Code	1464000	1464004 <small>most popular</small>	1455000	2605000	2609000
Box qty.	40	20	35	40	35
Mouthpiece	✓	✓	✓		
Tube length	1.8m	1.8m	2.1m	1.8m	1.8m
T-piece	✓	✓	✓	✓	
Self sealing T-piece					✓

HOT Top 2 nebuliser and kits

Ideal for compressors and designed to reduce treatment time, operate horizontally and achieve 2.96 MMD. It is comparable to the Intersurgical Cirrus 2 operating at 8lpm when used at 6lpm.



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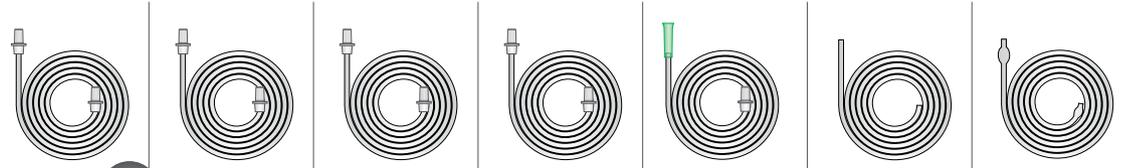
Code	1472015	1463013	1468013	1478013
Box qty.	75	30	36	45
Size		Adult	Paediatric	
Mask		Face	Face	
Tube length		1.8m	1.8m	1.8m
Angled mouthpiece				✓
eco		✓	✓	

AquaFlow oxygen bubble humidifiers



Code	1520000	1521000	1506000	1505000	1507000
Box qty.	20	20	30	20	20
Bottle	120ml	120ml		500ml	500ml
M12 adaptor	✓			✓	
Low volume	✓	✓			

Oxygen tubing



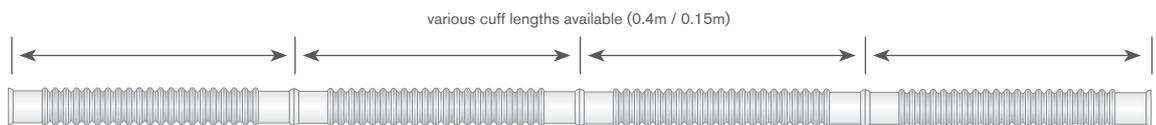
Code	1174000	1174003	1174007	1175000	1173000	1180000	1170000
Box qty.	125	100	30	30	60	1	1
Length	1.8m	2.1m	10m	4.0m	1.8m	50m	50m
Wide connector					✓		
Thick wall tubing						5mm ID and 7mm OD	
Bubble tube							4mm - 8mm ID
Kink resistant tubing	✓	✓	✓	✓	✓		

Tube connectors



Code	1968000	1568000
Box qty.	50	40
Connection	22M	22F
6mm stem	✓	✓

Aerosol hose 15mm / 22mm "Flextube"



Code	1574000	1573000	1528000	1575000	1576000
Box qty.	1	1	30	1	1
Diameter	22mm	22mm	22mm	15mm	15mm
Cuff length	0.4m	0.15m		0.15m	0.4m
Length	1 roll 50m	1 roll 50m	1.6m	1 roll 50m	1 roll 50m

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Visit our website

We have made significant changes to make a better online experience for visitors to our website. It's now much easier to navigate around and find what you want. The product images are bigger and better and we've also added educational video clips and literature downloads that provide useful tools for educators and clinicians in respiratory care.

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For further information about our product range please contact your local subsidiary or distributor.

www.intersurgical.com/distributors

You Tube

We also have a YouTube channel offering the full library of video clips for you to watch share and use in training: www.youtube.com/intersurgical



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0035000	43	1200051	44	1800000	21	1961000	20
0040000	43	1206000	41	1801000	21	1962000	21
0060000	43	1331000S	30	1802000	21	1963000	20
0070000	43	1332000S	30	1831000	31	1964000	20
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1028080	43	1341580S	30	1841015	31	1965000	20
1031080	43	1344007S	25	1850000	28	1966000	20
1035080	43	1402000	44	1873000	29	1966001	20
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1161020	38	1478013	45	1911000	18	1981000	21
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1165012	38	1528000	46	1930000	20	1988000	21
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1165021	38	1544007	25	1938000	20	1991000	32
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1169000	37	1573000	46	1944000	25	1995000	32
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1175000	46	1690000	27	1948000	21	2340000	18
1180000	46	1701000	22	1949000	21	2605000	44
1181000	40	1702000	22	1950000	22	2609000	44
1188000	41	1703000	22	1952000	22	2714000	32
1190015	40	1704000	22	1953000	22	3501000	34
1192000	40	1705000	22	1954000	22	3502000	35

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United Kingdom

Crane House, Molly Millars Lane,
Wokingham, Berkshire, RG41 2RZ

T: +44 (0) 118 9656 300

F: +44 (0) 118 9656 356

info@intersurgical.com

www.intersurgical.com

Distributor:

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