







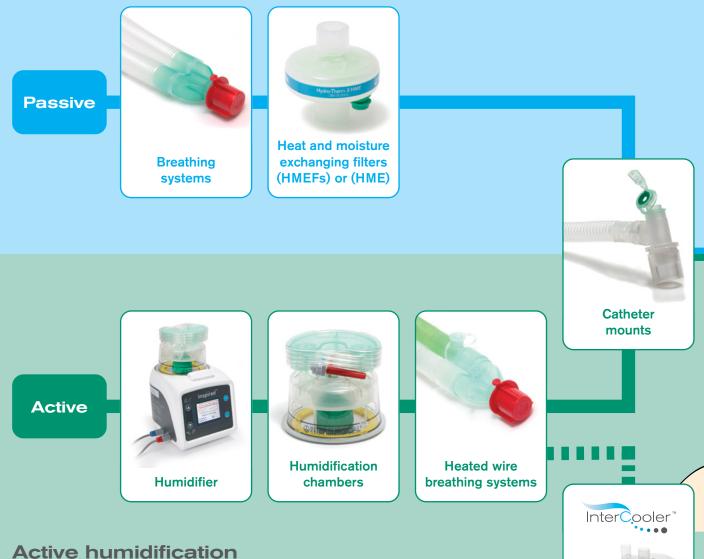
# Your choice for humidification

Intersurgical understand that each patient and clinical situation is different. Our aim is to provide a solution for all of your humidification requirements, active or passive, for both ventilated and spontaneously breathing patients.

# For ventilated patients

#### Passive humidification

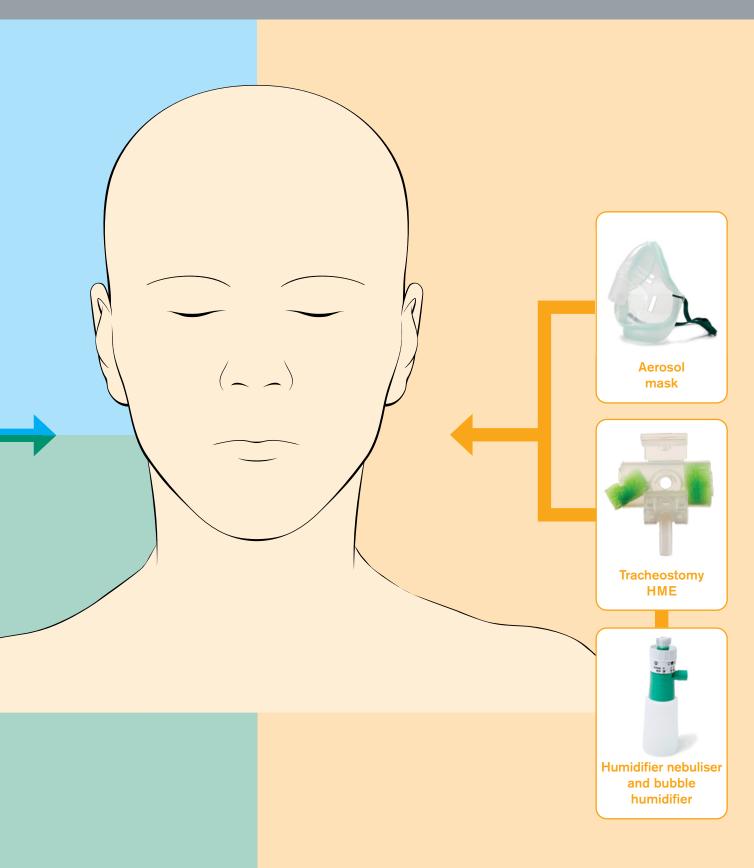
Passive Humidification requires a heat and moisture exchanger to be positioned at the patient connection of a basic two limb breathing system. This is designed to replicate the functions of the upper airway conserving the patient's own expired heat and moisture and returning these to the patient during inspiration.



**Dehumidifier** 

Active humidification requires a water bath humidifier, humidification chamber and either a heated wire breathing system or water traps within the system. This technique is also designed to replicate the functions of the upper airway by the addition of heat and moisture from the humidifier. This provides a higher level of humidity than an HME and should be selected depending on the clinical requirements of the patient.

# For spontaneously breathing patients



## A guide to symbols used in this catalogue

Throughout the catalogue we use a number of symbols to identify specific characteristics about our products, please familiarise yourself with these below.



#### Lower environmental impact product

The Eco range of products has been designed as part of our ongoing focus on sustainable development. Wherever you see the logo we have reduced the environmental impact of these products compared to traditional PVC options.



#### Sterile range

A number of our products are only supplied sterile and are identified by the symbol. Where we have both a non-sterile and sterile option available (S\*) is shown after the code number. Simply add S to the end of the 7 digit code to order the sterile version.



#### Silver Knight™

A range of Silver Knight breathing systems with anti-microbial additive for anaesthesia and intensive care is available, offering an option to help reduce the risks of cross infection.



#### Single use and Latex free

All products detailed in this catalogue are single-use and latex-free unless otherwise stated. The Alterna™ range of products is reprocessable and are all indicated.



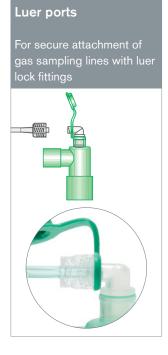
#### View product video

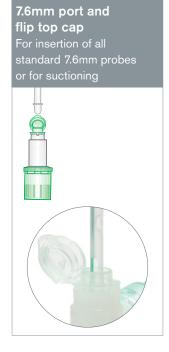
We have a large number of product videos to show how our products can be used and their features and benefits. These can be viewed on our website or where indicated by clicking the 'watch the video' button.

# A guide to our ports and caps

Ports and caps are available on a variety of products including catheter mounts, elbows, T-pieces, Y-pieces and connectors. For added safety all Intersurgical port caps are fixed to the connectors, to prevent loss or misplacement in use.







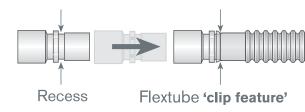


# A guide to our tube types

We manufacture a variety of tubes to suit different applications and clinical requirements:

# Flextube™ - for flexibility

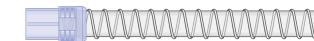
Most of our breathing systems, plus our Flexible range of catheter mounts, are made from Intersurgical Flextube. The tube is flexible and has a unique clip feature ensuring an airtight fit when used with our connectors with a recess.



## Smoothbore - for improved flow characteristics

We have a range of breathing systems and catheter mounts made from Smoothbore tubing. A non-PVC Eco option is also available providing a lower environmental impact. The clear crush resistant tubing offers improved ventilatory support, with:

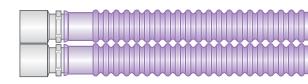
- Improved flow characteristics
- Lower tubing compliance
- Lower system volume



#### Anti-microbial breathing systems - reduce risks

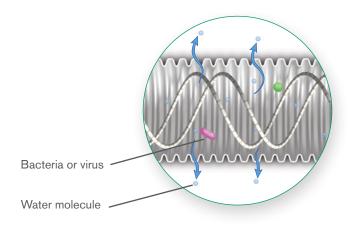
In the continued fight against Hospital Acquired Infections, Intersurgical has developed the Silver Knight™ range of products with an anti-microbial additive to further enhance patient safety. This anti-microbial, silver-based ion additive has been introduced to a range of breathing systems for both anaesthesia and intensive care use. Testing to ISO Standard 22196 shows a reduction in bacterial viable count by 99.9% against controls.





# Dri-Therm™ - reduced condensate technology

Dri-Therm expiratory tubing is made of material that allows small water molecules to pass through the limb wall. The permeability of the tube lowers the humidity of the gas and removes excess condensation. Larger bacteria and viruses cannot pass through the tubing are contained within the breathing system so they can be safely filtered at the end of the limb. Intersurgical's transparent, lightweight tubing and connectors ensure complete visibility of the breathing system patency and performance throughout patient treatment.



#### Why is Humidification needed?

In normal respiration the anatomy of 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, contains 44mg  $\rm H_2O$  per litre. In mechanical ventilation or anaesthesia, 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 cold dry inspired gas.

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

Prolonged exposure to dry ventilatory gases can lead to a number of problems as highlighted below.

# Prolonged exposure to dry ventilatory gases can lead to:

- Localised 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
- Extended duration and cost of care

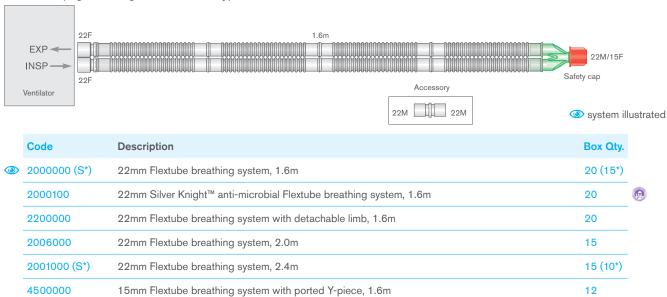
# Respiratory epithelium adversely affected by heat and moisture loss Reduced ciliary function Columnar cell Intermediate cell Basement cell



## Flextube™ breathing systems for passive humidification

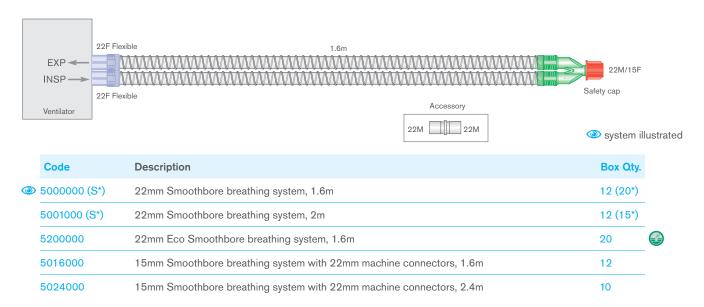
A range of Flextube breathing systems for passive humidification featuring a unique clip feature that creates an airtight fit when used with Intersurgical connectors, and ensures no leaks or disconnections.

Please see page 5 for a guide to our tube types.



## Smoothbore breathing systems for passive humidification

Smoothbore tubing incorporates flexible end connectors at the machine end that are welded on to the tube, preventing leakage or disconnection.





<sup>(</sup>S\*) Add an S to the seven digit code number for the sterile version of this product eg. 5000000S (sterile box quantity is shown in brackets).

# What options are available?

There are two options for patient humidification, passive or active.

**Passive humidification** conserves the patient's own heat and moisture whilst **active humidification** adds additional heat and moisture via a humidifier.

We have a full range of products for both options to suit your patients requirements.

#### **Passive Humidification**

If your ventilated patient requires passive humidification then we have a wide range of basic breathing systems and heat and moisture exchangers.

In this brochure are a selection of options however for the full range please refer to our website www.intersurgical.com or our product catalogue.



# Hydro-Therm™ HME range

A dedicated range of Heat and Moisture Exchangers designed to replicate the functions of the body's upper airway by conserving expired heat and moisture and returning them to the patient during inhalation. The Hydro-Therm is a small volume, lightweight device which is clinically suitable over a wide range of patient sizes.





Code	1850000	1855000
Box Qty.	20	20
Luer lock port		✓
Moisture return @VT 500ml	30.8mg H₂O/L	30.8mg H₂O/L
Resistance at 30L/min	0.5cm H₂O	0.5cm H₂O
Resistance at 60L/min	1.6cm H₂O	1.6cm H₂O
Compressible volume	20ml	20ml
Weight	11.8g	11.8g
Connectors	15M-22M/15F	15M-22M/15F
Minimum tidal volume	>60ml	>60ml

# Hydro-Therm™ 3 HME range

A dedicated range of Heat and Moisture Exchangers designed to replicate the functions of the body's upper airway by conserving expired heat and moisture and returning them to the patient during inhalation. The Hydro-Therm 3 is a large-volume HME with rounded housing for use in anaesthesia and intensive care.



Code	1560000	1560011
Box Oty.	150	75
Luer lock port	✓	✓
Moisture return	31.6mg H₂O/L	31.6mg H₂O/L
Resistance at 30L/min	0.2cm H₂O	0.3cm H₂O
Resistance at 60L/min	0.7cm H₂O	1.3cm H₂O
Compressible volume	59ml	59ml*
Weight	31g	45g
Connectors	22F/15M-22M/15F	22F/15M-22F/15M
Minimum tidal volume	>200ml	>200ml
Accessories		Superset™ catheter mount**

We can provide both HME only options and a range combined with filters, HMEFs.

These provide the performance of a dedicated HME with the filtration efficiency of a breathing filter.

## Filta-Therm Plus and Clear-Therm HMEFs



Code	1941001	1541000
Box Qty.	70	150
Luer lock port	✓	<b>√</b>
Moisture return	30.3mg H₂O/L	30.8mg H₂O/L
Filtration efficiency	>99.999%	>99.99%
Resistance at 30L/min	1.1cm H₂O	0.8cm H₂O
Resistance at 60L/min	2.5cm H₂O	2.1cm H₂O
Compressible volume	65ml	59ml
Weight	44g	29g
Connectors	22F-22M/15F	22F/15M-22M/15F
Minimum tidal volume	>200ml	>200ml

- \* HME only
- \*\* Refer to information on catheter mount volumes in Patient Connections.

# Inter-Therm<sup>™</sup> range

#### **Sterile**

The Inter-Therm range of sterile HMEFs is designed for use in breathing systems in the operating theatre and intensive care unit.

The Inter-Therm includes a wound paper HME media, providing excellent humidification and low resistance properties.

Inter-Therm Mini Angled offers an easy to use option with an integral 90° elbow for paediatrics, reducing the need for an additional catheter mount or separate patient elbow.

Inter-The

#### **Turbo webs**

Evenly distributes the air flow to ensure all of the filter media is utilised

# Wound paper HME element

Providing high moisture return



Ensuring low resistance to flow during use

Self retaining port cap

Improving patient safety









Code	1341007S S	1341000S	1341580S S	1332000S
Box Qty.	50	50	50	50
Luer lock port		✓	✓	✓
Moisture return	32.3mg H₂O/L	32.3mg H₂O/L	32.3mg H₂O/L	30.1mg H₂O/L
Filtration efficiency	>99.998%	>99.998%	>99.998%	>99.99%
Resistance at 30L/min	1.6cm H₂O	1.6cm H₂O	1.6cm H <sub>2</sub> O	2.2cm H₂O
Resistance at 60L/min	2.7cm H₂O	2.7cm H₂O	3.9cm H₂O	-
Compressible volume	57ml	57ml	57ml*	29ml*
Weight	30g	31g	58g	19g
Connectors	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F	15M-22M/15F
Minimum tidal volume	>180ml	>180ml	>180ml	>90ml
Accessories			Smoothbore catheter mount with double swivel elbow and double flip top cap**	



<sup>\*</sup> HMEF only

<sup>\*\*</sup> Refer to information on catheter mount volumes in Patient Connections.

#### **Active Humidification**

If your ventilated patient requires active humidification then we have an extensive range of breathing systems and accessory products available.

## VHB20 Series Respiratory Humidifier

The VHB20 Series Respiratory humidifier provides a further customer option for active humidification and is a perfect platform for our extensive range of heated wire products and accessories.

The VHB20 Series Respiratory Humidifier offers a number of key benefits:

- Two customisable pre-set treatment modes
- Automatic humidity monitoring and control to optimise gas delivery and minimise rainout
- Large high resolution colour screen suitable for day and night operation
- Comprehensive range of operational alarms, including a low humidity alarm
- The VHB20 is delivered ready for use with the temperature probe and heated wire adaptor lead included in the package



#### Configurable display

Choice of chamber or patient end airway temperature

# Locking button

One touch mounting allows for easy insertion and removal of the humidification chamber

#### Wide range of applications

Compatible with non-heated, single heated and dual heated wire breathing systems

### 2.8" TFT colour screen display

Large and clear display with automatic night mode to reduce glare

#### **Mode selection**

Invasive and non-invasive preset modes with optional user control of temperature settings

#### Alarm indicator panel

Allows for fast and intuitive response to errors

#### Display of run time

To monitor current treatment duration

Code	Description	Languages	Box Oty.
51006745	VHB20 Respiratory humidifier (UK)	English	1
51008701	VHB20 Respiratory humidifier (EU1)	English, Spanish, Portuguese, Italian	1
51008749	VHB20 Respiratory humidifier (EU2)	English, French, German, Dutch	1
51008750	VHB20 Respiratory humidifier (EU3)	English, Turkish, Polish, Swedish	1
51008751	VHB20 Respiratory humidifier (EU4)	English, Danish	1
51006181	VHB20 temperature and humidity probe	-	1
51006182	VHB20 adaptor lead for dual heated wire breathing systems	-	1

#### Chambers for heated humidification

We offer a comprehensive range of active humidification chambers for use with the more commonly found humidifiers used in the intensive care areas.

Compatible with all our heated wire products, all three chamber options feature 22mm male connectors and a clear polycarbonate body for instant and accurate visible fluid level assessment.

- The auto fill humidification chamber can be used in a variety of respiratory support therapies ranging from CPAP through to full mechanical ventilation including high frequency oscillation for all size patients. This chamber offers the clinician a constant water level, as the used fluid is automatically replaced from a reservoir bag. As a result the system compressible volume does not fluctuate, making the auto fill chamber the first choice in all intensive care areas from neonatal through to adult.
- The manual fill chamber feature a clamp along the fill line which isolates the chamber from the fluid reservoir bag. This chamber requires the clinician to monitor the water level and open the clamp when more fluid is required. Seen as a lower cost alternative and is sometimes used in high driving pressure applications (eg. nFlow™).
- The low volume manual fill chamber also features the fill line clamp. With very low compressible volume, it is ideally suited for applications like advanced high frequency ventilation for all sizes of patient.

#### Inline filter

Prevents any debris entering the chamber

#### **Dual valve**

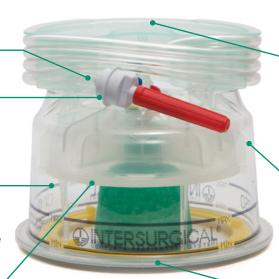
For added security

#### Clearly visible water level indicator

Easy to see for instant accurate fluid level assessment

#### Advanced dual float design

The closed cell material of the primary float ensures a totally reliable unsinkable rigid mechanism. Whilst the secondary float provides added security



#### **Protective cassette**

Protects the chamber from contamination and conveniently stores the fill set before use

# Strong polycarbonate clear material

Improved compliance characteristics. Allows for easy visual assessment of the fluid level at all times

# Shrouded heated plate cover

Prevents accidental burns when removing the chamber from the heater base







2310000

2320000

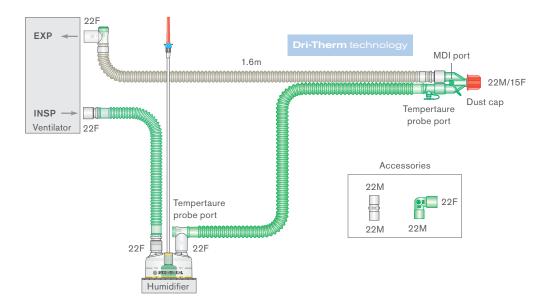
2330000

Code	Description	Box Oty.
2310000 (S*)	Auto fill humidification chamber with fill set	30 (30*)
2320000	Manual fill humidification chamber with fill set and clamp	30
2330000	Low volume manual fill humidification chamber with fill set and clamp	30

# Dri-Therm™ dual heated wire breathing systems

The Dri-Therm heated wire breathing system is designed to reduce the humidity of gas in the expiratory limb, keeping tubing clear of fluid, helping maintain a closed system and protecting the ventilator from high levels of humidity. The Dri-Therm system combines permeable tube technology with Intersurgical's twin coil wire and high quality product design. The temperature and humidity of the gas is conditioned to deliver the optimal level of humidification to the patient whilst minimising excess condensate in the gas pathway.

Please see page 5 for a guide to our tube types.



Code	Description	Box Qty.
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2066310 22mm Dri-Therm dual heated wire breathing system with autofill chamber and extra limb. ≥ 1.6m

# Modular design

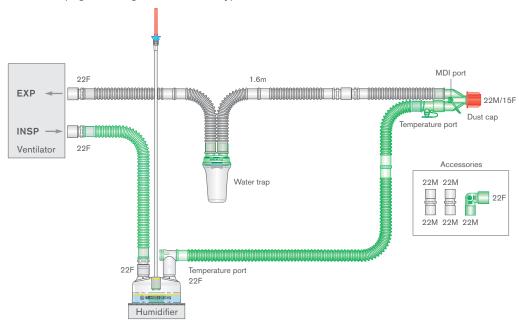
Allows easy transition between invasive ventilation, non-invasive ventilation and high flow oxygen therapy.



# Flextube™ breathing systems for active humidification with heated wire

A range Flextube breathing systems for active humidification, available with single or dual heated wires.

Please see page 5 for a guide to our tube types.



#### **Dual heated wire**

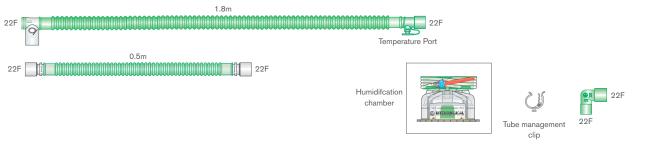
system illustrated

system illustrated

Code	Description	Box Oty.	
2026310 (S*)	22mm Flextube dual heated wire breathing system with auto fill chamber and limbs. ≥ 1.6m	7 (6*)	
2026131 (S*)	22mm Flextube dual heated wire breathing system with auto fill chamber and limbs. ≥ 1.6m	7	(A)
4504018	15mm Flextube dual heated wire breathing system with auto-fill chamber and limb. ≥ 1.2m	7	-

#### Single heated wire

	Code	Description	Box Qty.	
<b>③</b>	2025310 (S*)	22mm Flextube single heated wire breathing system with water trap, auto fill chamber and limb. ≥ 1.6m	7 (6*)	
	2025131	22mm Flextube single heated wire breathing system with water trap, auto fill chamber and limb. ≥ 1.6m	7	<b>(A)</b>
	4504810	15mm Flextube single heated wire breathing system with water trap, auto-fill chamber and limb, ≥ 1.2m	7	



#### Single limb heated wire

 Code
 Description
 Box Qty.

 ② 2060310
 22mm Flextube single heated wire limb with auto-fill chamber and extra limb. ≥ 1.6m
 7

 2031004
 30mm Flextube bilevel heated wire breathing system with swivel patient connector, CO₂ leak port, auto fill chamber, monitoring line, filter and extra limb. ≥ 1.6m
 6

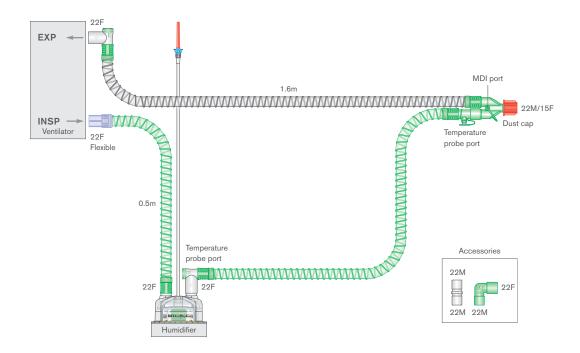
Silver Knight - please see more information on page 5

<sup>(</sup>S\*) Add an S to the seven digit code number for the sterile version of this product eg.5000000S (sterile box quantity is shown in brackets).

# Smoothbore breathing systems for active humidification with heated wire

A range of Smoothbore breathing systems for active humidification, available with single or dual heated wire.

Please see page 5 for a guide to our tube types.



#### **Dual heated wire**

system illustrated

	Code	Description	Box Qty.
<b>③</b>	5026310 (S*)	22mm Smoothbore dual heated wire breathing system with auto fill chamber and extra limb. ≥ 1.6m	8 (7*)
	5507850	15mm Smoothbore dual heated wire breathing system with extra limb. ≥ 1.6m	15

#### Single heated wire

Code	Description	Box Oty.
5025310 (S*)	22mm Smoothbore single heated wire breathing system with water trap, auto fill chamber and extra limb. $\geq$ 1.6m	7 (7*)
5504810	15mm Smoothbore single heated wire breathing system with water trap, auto-fill chamber and limb. ≥ 1.6m	7

#### Exhalation valve heated wire

Code	Description	Box Oty.
5191850	22mm Smoothbore exhalation valve heated wire breathing system with control and monitoring line and extra limb. ≥ 1.6m	25
5194850	22mm Smoothbore exhalation valve heated wire breathing system with control line and extra limb. ≥ 1.6m	12

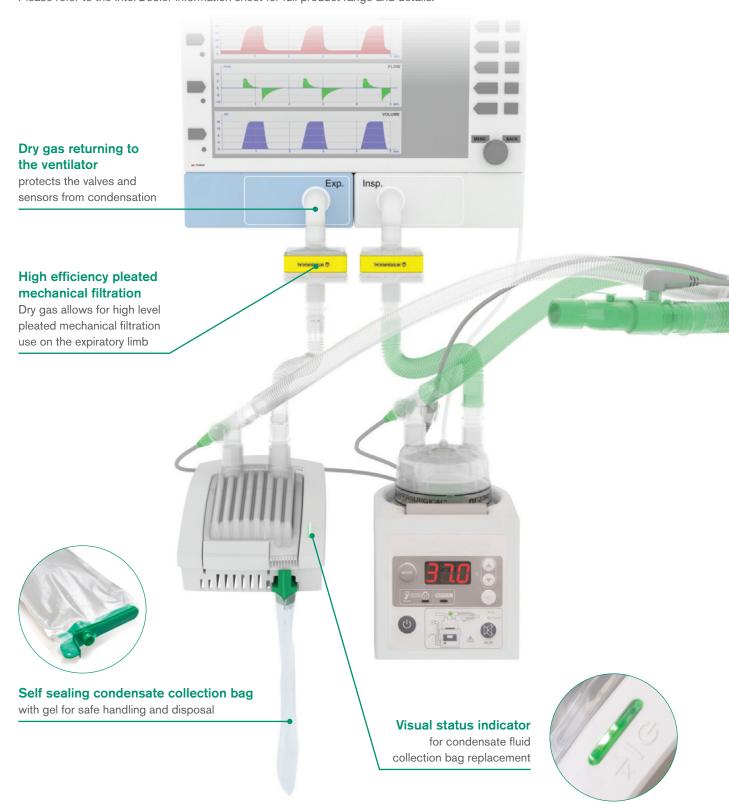
# InterCooler respiratory dehumidifier

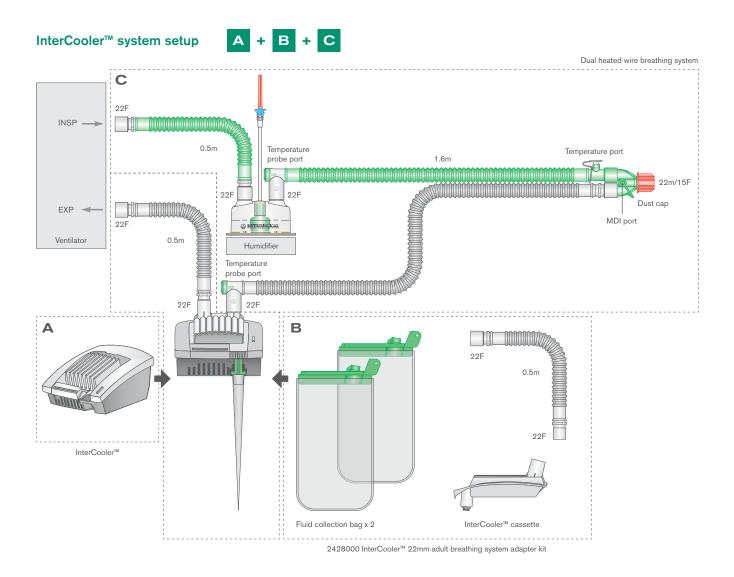
The Intersurgical InterCooler™ dehumidifier is designed to remove 100% of excess moisture from the expiratory limb of heated wire breathing systems.

InterCooler's unique patented technology reduces the risk of cross infection by managing all excess fluid in the breathing system, increasing filtration and minimising ambient aerosol release.

InterCooler is compatible with all leading ICU ventilators, humidifiers and dual heated wire breathing systems and is the only solution to offer complete control of expiratory condensate.

Please refer to the InterCooler information sheet for full product range and details.





## A InterCooler dehumidifier

Code	Description	Box Qty.
7010000	InterCooler – UK	1
7010002	InterCooler - France	1
7010003	InterCooler - Czech Republic	1
7010004	InterCooler - Australia	1
7010005	InterCooler - South Africa	1
7010007	InterCooler - Denmark	1
7010008	InterCooler - Spain	1

Code	Description	Box Oty.
7010009	InterCooler - Italy	1
7010010	InterCooler - Germany	1
7010011	InterCooler - Netherlands	1
7010012	InterCooler - Poland	1
7010013	InterCooler - Portugal	1
7010014	InterCooler – Turkey	1
7010015	InterCooler - Sweden	1

# B InterCooler™ adapter kit

Code	Description	Box Qty.
2428000	InterCooler 22mm adult breathing system adaptor kit	10
2429000	InterCooler 15mm neonatal and paediatric breathing system adaptor kit	10

# C Dual heated wire breathing systems

#### **Patient connections**

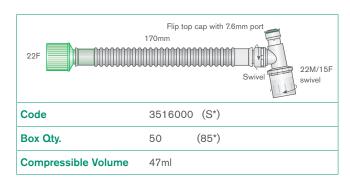
A wide range of patient connections are available in Flexible, Superset and Smoothbore tubing, see our product catalogue for the full range.

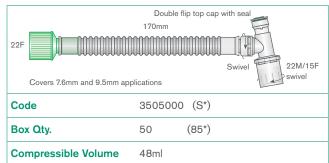
All port caps are retained to ensure they cannot be misplaced in use. Two varieties of flip top cap are available to allow for suctioning and the use of a fibre optic bronchoscope.

Please see page 4 for the guide to ports and caps.

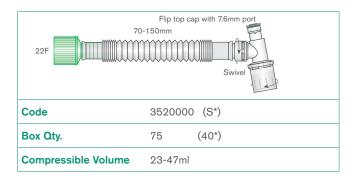


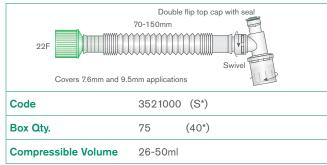
#### Flexible catheter mounts



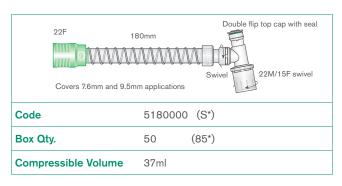


#### Superset<sup>™</sup> catheter mounts





#### **Smoothbore catheter mounts**



#### **Passive Humidification**

For the spontaneously breathing patient with a tracheostomy or receiving oxygen therapy, both passive and active humidification options are available.

# Hydro-Trach™ T range

A heat and moisture exchanger designed for use on tracheostomised patients, the Hydro-Trach T is an ideal product for prolonged use with spontaneously breathing patients.



#### Clipped suctioning port

Allows for easier suctioning

without removal of the device



# Anti-occlusion mechanism

For easy visual inspection of possible secretion build up

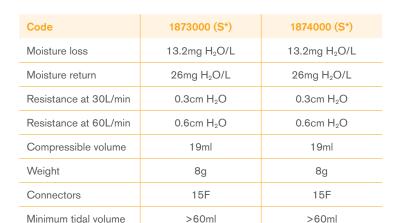
Allows the HME element to partially dislodge in the event of total occlusion or vigorous cough

**Clear housing** 



#### 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



#### Average Fi O<sub>2</sub> at variable O<sub>2</sub> flow rates

Oxygen (L/min)	Fi O <sub>2</sub> at 15 BPM
1	26.4%
2	31.8%
3	35.0%
4	38.2%
5	41.8%
6	44.9%
7	47.4%
8	49.6%

Accessories

1.8m oxygen tube

#### Inter-Therm™ T+

The Inter-Therm T+ is a heat and moisture exchange device designed for use with spontaneously breathing patients to reduce loss of heat and moisture during respiration.

When a patient has a tracheostomy, the normal process of temperature and moisture maintenance is bypassed by the insertion of the tracheal tube. The possible loss of heat and moisture can lead to serious complications, notably damage to cilia and the mucous glands.

This in turn may result in retention of sputum and atelectasis, production of mucous plugs and potential tube occlusion.

The Inter-Therm T+ has a number of unique features that make it an ideal product for prolonged use with spontaneously breathing patients.

Watch the video

#### Clipped suction port

Allows easy access for suctioning without removing the device

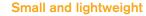
# Clear housing and white HME elements

Optimises visualisation of possible pulmonary secretions



# Unique corrugated paper design

Provides perfect combination between humidification output and low resistance to flow



Reduces pull and drag on the patient's airway

#### **Optimal humidification**

Reduces the side effects associated with breathing cold dry gases over a prolonged period of time

#### Integrated swivel oxygen connector

Allows for quick and convenient connection of supplemental oxygen and can be folded away when not in use

Code	Description	Length	Box Oty.
1875000 (S*)	Inter-Therm T+ HME		25 (100*)
1875001 (S*)	Inter-Therm T+ HME with oxygen tube	1.8m	40 (20*)

#### Average Fi O<sub>2</sub> at variable O<sub>2</sub> flow rates

Code	1875000 (S*)	1875001 (S*)
Moisture loss	13.1mg H₂O/L	13.1mg H₂O/L
Moisture return	26.1mg H₂O/L	26.1mg H <sub>2</sub> O/L
Resistance at 30L/min	0.4cm H₂O	0.4cm H₂O
Resistance at 60L/min	1.1cm H₂O	1.1cm H₂O
Compressible volume	19ml	19ml
Weight	9g	9g
Connectors	15F	15F
Minimum tidal volume	>60ml	>60ml
Accessories		1.8m oxygen tube

# AquaMist™ humidifier nebulisers

The Intersurgical AquaMist humidifier nebuliser has been designed to deliver a range of accurate concentrations of humidified oxygen, which may be selected to suit the clinical requirements.





Code	Description	Box Oty.
1508000	AquaMist, humidifier nebuliser without bottle	24
1500000	AquaMist, humidifier nebuliser without bottle, with BOC® adaptor	24
1509000	AquaMist, humidifier nebuliser with bottle, 500ml	25
1502000	AquaMist, humidifier nebuliser with bottle and BOC® adaptor, 500ml	25
1500001	AquaMist, humidifier nebuliser and Intersurgical EcoLite™ aerosol mask kit without bottle, BOC® adaptor, 2.0m Flextube™	15

# Tracheostomy masks and T-pieces

A high quality, lightweight mask with a quick-release elastic for ease of use.

The Intersurgical EcoLite adult tracheostomy mask is made from non-PVC materials reducing the environmental impact.



( Watch the video

illustrated

Code	Description	Connectors	Box Oty.	
1200050	Intersurgical EcoLite, adult, tracheostomy mask	22M	30	
1206000	Paediatric, tracheostomy mask	22M	35	
1980000	Tracheostomy T-piece	22M-22M-22M/15F	25	
1984000	Tracheostomy T-piece with 7.6mm port	22M-22M-22M/15F	 25	

#### Aerosol face masks

Intersurgical EcoLite aerosol masks are available in adult and paediatric sizes, and are made using non-PVC materials, part of our Eco range.



illustrated

Code	Description	Box Oty.	
1188015	Intersurgical EcoLite, adult, aerosol mask	50	
1198015	Intersurgical EcoLite, paediatric, aerosol mask	42	

# AquaFlow™ oxygen bubble humidifiers

A comprehensive range of devices for delivering unheated humidification to your patients. Supplied with a bottle, the AquaFlow range of bubble humidifiers are suitable for patients receiving variable oxygen therapy.











Code	Description	Box Oty.
1507000	AquaFlow, oxygen bubble humidifier with bottle, 500ml	20
1505000	AquaFlow, oxygen bubble humidifier with bottle plus M12 adaptor, 500ml	20
1521000	AquaFlow, homecare oxygen bubble humidifier with bottle, 120ml	20
1520000	AquaFlow, homecare bubble humidifier with bottle plus M12 adaptor, 120ml	20

# Intersurgical EcoLite™ adult medium concentration oxygen mask

#### **Welcome to the Comfort Zone**

The unique design and materials used to manufacture the Intersurgical EcoLite mask provides improved patient comfort and a reduced environmental impact.

#### Comfortable for the Patient

Improved patient comfort has been key to the development of the Intersurgical EcoLite mask. The latest manufacturing technology has enabled us to combine two non-PVC materials in the same product, the polypropylene material forming the body of the Intersurgical EcoLite mask is clear, lightweight and rigid enough to maintain the masks shape, whilst the second softer TPE material is utilised in the seal, which is in contact with the patients face.

#### **Comfortable for the Environment**

The Intersurgical EcoLite mask is an important part of our Eco range, designed as part of our ongoing focus on sustainable development. The use of PVC in medical products has been questioned and its impact on the environment. The utilisation of alternative materials has resulted in the elimination of PVC from the Intersurgical EcoLite mask, reducing the environmental impact.

Watch the video

#### Lighter

50% lighter than a PVC mask, more comfortable for the patient

#### Soft face seals

Increased patient comfort

# Elastic can be positioned under or over the ears

Below ear position eliminates trauma to top of ears

#### Incurved nose seal

Conforms to different nose shapes designed to prevent oxygen entering patient's eyes

#### No metal nose clip

MRI compatible

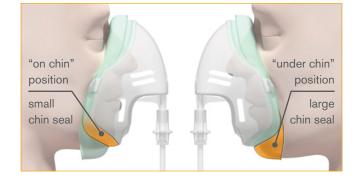
#### **Exhalation ports**

Designed to minimise the amount of rebreathed carbon dioxide



#### A choice of "under chin" or "on chin" positions

Provides a better fit on a wider range of patient face shapes



#### **Adult masks**

Code	Description	Tube length Box Oty.
1136015	Intersurgical EcoLite, adult, medium concentration oxygen mask	55
1135015	Intersurgical EcoLite, adult, medium concentration oxygen mask with tube	2.1m 40

#### Paediatric medium concentration mask

The Intersurgical EcoLite<sup>™</sup> is one of the lightest and most comfortable paediatric mask available. Every aspect of the design has been addressed, achieving unparalleled levels of comfort and fit. Not only comfortable for the patient but also comfortable for the environment. The elimination of PVC from the masks has dramatically lowered their environmental impact.

Code	Description	Tube length	Box Oty.	
1190015	Intersurgical EcoLite, paediatric, medium concentration oxygen mask		42	
1196015	Intersurgical EcoLite, paediatric, medium concentration oxygen mask with tube	2.1m	40	



#### Nasal cannula

A range of products for adult, paediatric and neonates are available with a wide selection of prong shapes to suit all patient requirements. All oxygen tubing in the range is manufactured in a 'multi-channel' design, which permits oxygen flow even if the tubing is kinked. The Earguard option includes soft silicone foam cushions, which are easily adjusted and securely fitted to prevent trauma to the patient's ears.



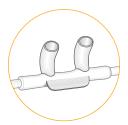




Curved prongs: Improved anatomical shape and fit



Flared prongs: Slow down the flow of oxygen



Curved and Flared prongs:
Combines the benefits of both



**Straight Prongs** 



Curved prongs with with Intersurgical EarGuard™: Improved anatomical fit and patient comfort

Code	Description	Tube Length	Box Oty.
1161000	Adult, nasal cannula with straight prongs and tube	1.8m	50
1161004	Adult, nasal cannula with straight prongs and tube	2.1m	50
1162000	Adult, nasal cannula with straight prongs and tube	5m	20
1169000	Adult, nasal cannula with straight prong, headset and tube	0.5m	100
1165000	Adult, nasal cannula with curved prongs and tube	1.8m	50
1161020	Adult, Satin nasal cannula with straight prongs and tube	1.8m	50
1165020	Adult, Satin nasal cannula with curved prongs and tube	1.8m	50
1165002	Intersurgical EarGuard, adult, nasal cannula with curved prongs and tube	2.1m	50
1165003	Intersurgical EarGuard, adult, nasal cannula with curved prongs and tube	5m	40
1165021	Adult, Satin nasal cannula with curved prongs and tube	2.1m	50
1161021	Adult, Satin nasal cannula with straight prongs and tube	2.1m	50
1166000	Adult, nasal cannula with flared prongs and tube	1.8m	50
1167000	Adult, nasal cannula with curved/flared prongs and tube	1.8m	50
1168000	Adult, nasal cannula with curved/flared prongs, headset and tube	0.5m	100
1163000	Paediatric, nasal cannula with curved prongs and tube	2.1m	50

IS1.14 EU NL • Issue 3 03.22



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The manufacturer Intersurgical Ltd is certified to ISO 9001:2015, ISO 13485:2016, ISO 14001:2015 and MDSAP

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