Tracheostomy HME range

Airway Management ▪ Heat and moisture exchangers (HMEs)

INTERSURGICAL®
COMPLETE RESPIRATORY SYSTEMS
Quality, innovation and choice

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Tracheostomy HME range

The Intersurgical tracheostomy HMEs offers a range of heat and moisture exchange devices 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 Intersurgical tracheostomy HME range has a number of unique features that make these ideal products for prolonged use with spontaneously breathing patients.

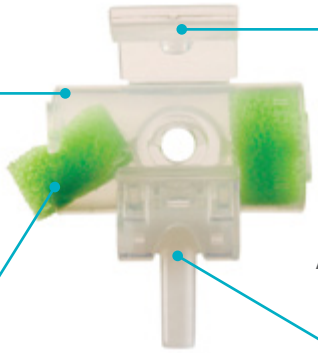
The Intersurgical tracheostomy HME range comprises of:

- Hydro-Trach™ T HME
- Inter-Therm™ T HME
- Inter-Therm T+ HME
- Hydro-Therm™ Micro HME

Hydro-Trach™ T HME

Clear housing
For easy visual inspection for possible secretion build up

Clipped suctioning port
Allows for easier suctioning without removal of the device



Small and lightweight
Reduces the pull on the patient connection

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

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

Code	Description	Length	Box Qty.
1873000 (S*)	Hydro-Trach T Mk II HME		25 (100*)
1874000 (S*)	Hydro-Trach T Mk II HME with swivel tube connector and oxygen tube	1.8m	40 (20*)

Code	1873000 (S*)	1874000 (S*)
Moisture loss	13.2mg H_2O/L	13.2mg H_2O/L
Moisture return	26mg H_2O/L	26mg H_2O/L
Resistance at 30L/min	0.3cm H_2O	0.3cm H_2O
Resistance at 60L/min	0.6cm H_2O	0.6cm H_2O
Compressible volume	17ml	17ml
Weight	8g	8g
Connectors	15F	15F
Minimum tidal volume	>60ml	>60ml
Accessories		1.8m oxygen tube

Average Fi O_2 at variable O_2 flow rates

Oxygen (L/min)	Fi O_2 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%

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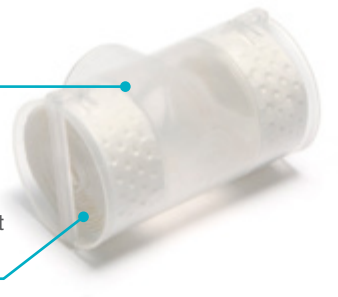
Sterile option available

(S*) Add an S to the seven digit code number for the sterile version of this product eg. 1873000S (sterile box quantity is shown in brackets).

Inter-Therm™ T HME

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



Small and lightweight
Reduces pull and drag on the patient's airway

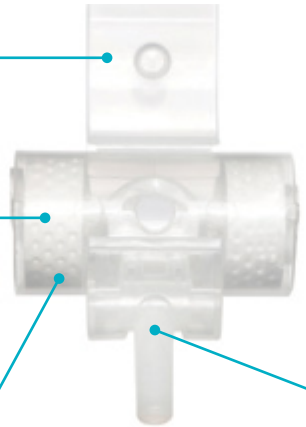
Optimal humidification
Reduces the side effects associated with breathing cold dry gases over a prolonged period of time

Inter-Therm™ T+ HME

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



Small and lightweight
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 Qty.
1875020 (S*)	Inter-Therm T HME		25 (100*)
1875000 (S*)	Inter-Therm T+ HME		25 (100*)
1875001 (S*)	Inter-Therm T+ HME with oxygen tube	1.8m	40 (20*)

	Inter-Therm T	Inter-Therm T+	Inter-Therm T+
Code	**1875020 (S*)**	**1875000 (S*)**	**1875001 (S*)**
Moisture loss	11.9mg H_2O/L	13.1mg H_2O/L	13.1mg H_2O/L
Moisture return	27.1mg H_2O/L	26.1mg H_2O/L	26.1mg H_2O/L
Resistance at 30L/min	0.3cm H_2O	0.4cm H_2O	0.4cm H_2O
Resistance at 60L/min	0.8cm H_2O	1.1cm H_2O	1.1cm H_2O
Compressible volume	16ml	17ml	17ml
Weight	5g	9g	9g
Connectors	15F	15F	15F
Minimum tidal volume	>60ml	>60ml	>60ml
Accessories			1.8m oxygen tube

Average Fi O_2 at variable O_2 flow rates

Oxygen (L/min)	Fi O_2 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%

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S Sterile option available

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Hydro-Therm™ Micro HME

Small and lightweight
Reduces the risk of inadvertent pull and drag on the patient's airway

Moisture return
Tested in accordance with ISO 9360, delivers a moisture return of 29.5mg H_2O/L

Low compressible volume
Reduces deadspace and potential rebreathing of expired Carbon Dioxide

Safety by design
Safely secures the position of the media throughout use

Low resistance to flow
Minimises the work of breathing

Suitable for use on neonatal and infant patients
with a tracheostomy, during transport or short procedures

Larger surface area of HME media
The open celled foam HME maximises moisture return with a low compressible volume

Safe and secure connections
Tapered connections, compliant with ISO 5356

Code	Description	Box Qty.
1442000	Hydro-Therm Micro HME	30

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Code	1442000
Moisture loss	9.2mg H_2O/L
Calculated moisture return	29.5mg H_2O/L
Resistance at 5L/min	0.3cm H_2O
Resistance at 10L/min	0.8cm H_2O
Dead space	2.2ml
Minimum tidal volume	>10ml
Weight	2.8g
Connectors	15F/15M

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