Hydro-Trach T Mk. II

Heat and moisture exchanger
with integral oxygen tube connector

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COMPLETE RESPIRATORY SYSTEMS

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Introduction

Tracheal intubation deprives the patient of the functions normally carried out by the nose and the upper airway. During respiration the upper airway warms and humidifies inspired gas, and by the time air reaches the lungs it has a constant temperature and humidity of 37° Celsius and 44mg H_2O per litre of air. As the air leaves the lungs during expiration heat and moisture are then re absorbed by the upper airway preventing dehydration.

Problems associated with intubation

The normal system of temperature and moisture maintenance is bypassed by the insertion of a 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 tubal occlusion.

Hydro-Trach T Mk II

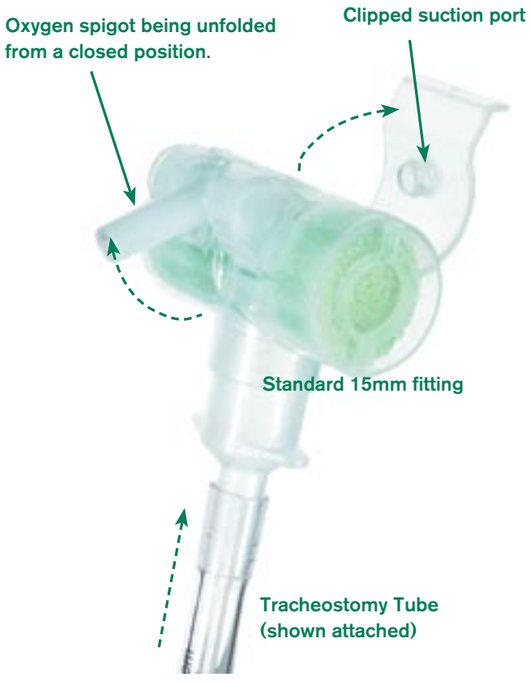
Hydro-Trach T Mk II is a heat and moisture exchange device designed for use with spontaneously breathing patients in order to reduce loss of heat and moisture during respiration. The Hydro-Trach T Mk II reproduces the functions of the upper airway, heating and moisturising the gas on inspiration and preventing heat and moisture loss on expiration. A number of unique features results in an ideal product for prolonged use with spontaneously breathing intubated patients.

Design

The Hydro-Trach T Mk II has a standard 15mm fitting for attachment to the patient's tracheotomy tube. It is small and lightweight, which prevents pull on the patient connection. The smooth rounded edges prevent unnecessary trauma to the patient during use. Two foam HME elements provide a suitable medium for returning moisture to the patient in the form of humidified gas.

A clipped suction port allows suctioning to take place with the product in situ creating less disturbance of the patient.

The features - at a glance



Safety

The Hydro-Trach T Mk II includes an anti occlusion safety mechanism so that in the event of a mucous plug covering the foam HME element a cough will allow one of the foam elements to dislodge around the partial HME retaining clip, thus creating an air path and allowing ease of breathing.

Some patients require supplemental oxygen. The product incorporates an integral, centrally located spigot which can be connected to an oxygen tube without the addition of any further accessories to the product. The position of the spigot being central and at the lowest point of the product, prevents pull on the patient connection. When oxygen is not required, the spigot can be rotated around to an unobtrusive position underneath the component.

The Hydro-Trach Mk II HME with dislodged foam after a cough.

Specifications

Code	1873	1874
Description	Hydro-Trach T Mk II	Hydro-Trach T Mk II + oxygen tube
Connectors	15F	15F
Volume	19ml	19ml
Weight	8g	8g
Resistance to flow	1.3cm H_2O @ 60lpm	1.3cm H_2O @ 60lpm
Moisture return	26.0mg H_2O @ VT500ml	26.0mg H_2O @ VT500ml
Box Quantity	25	40
Maximum period of use	24 hours	24 hours

Breathing Filters