

## ANAESTHETIC HEAT MOISTURE EXCHANGERS (HME)

104-300-\*BUNDLE



### PRODUCT DESCRIPTION

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**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 these to the patient during inhalation.**

*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 when fully saturated, contains 44mg H<sub>2</sub>O/L. In normal respiration, the anatomy of the upper airway helps to warm and humidify inspired gas, and to retain the warmth and moisture contained in expired air. When you inhale, even cold or dry gas is heated to body temperature and by the time it reaches your lungs, it contains the correct amount of moisture. 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 (Intersurgical.com).*

#### **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

**104-300 with luer lock port & 104-301 without luer lock**

- Moisture loss 7.8mg H2O/l
- Calculated moisture return 30.8mg H2O/l
- Resistance at 30l/min 0.5cm H2O
- Resistance at 60l/min 1.6cm H2O
- Compressible volume 20ml
- Weight 11.8g
- Connectors 15M-22M/15F plus luer port (104-300 only)
- Minimum tidal volume >60ml

### 104-305 Hydro-therm 3 HME with luer lock port

- Moisture loss 6.7mg H2O/l
- Calculated moisture return 31.6mg H2O/l
- Resistance at 30l/min 0.2cm H2O
- Resistance 60l/min 0.8cm H2O
- Compressible volume 59ml
- Weight 31g
- Connectors 5M-22m/22F Plus luer lock port
- Minimum tidal volume >200ml

### ADDITIONAL INFORMATION

<b>Animal</b>	Mixed
<b>SKU</b>	104-300-*bundle

### Good to know...

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