



Medical

Pall HME20 and HME40



Adult and Pediatric Heat and Moisture Exchangers

Features

- ▶ Outstanding HME performance
- ▶ Maximum 48-hour use life
- ▶ Compact housing design
- ▶ Free of natural latex rubber

Benefits

- ▶ Protects against dry ventilation gases over a wide range of tidal volumes
- ▶ Protects the lung's physiological clearance function
- ▶ Minimizes potential for breathing distress and infection associated with water "rain out"
- ▶ Minimizes manipulation of the circuit
- ▶ Economical to use

Description

The Pall HME20 and HME40 Heat and Moisture Exchangers are indicated to protect patients against the potential risks of ventilation with dry and cold gases



Under-Humidification and its Consequences

During normal spontaneous breathing, the upper respiratory tract humidifies and warms inspiration gases to a physiologically appropriate level. Under these conditions, the lung will lose approximately 7 mg of water per liter of breathing gas. During tracheal intubation, however, this natural heating and humidifying system is bypassed by an endotracheal tube. As a result, precautions must be taken during mechanical ventilation to prevent cold and dry ventilation gases from damaging the delicate mucus membranes of the lower respiratory tract. An excessive loss of humidity will have deleterious effects on ciliated membranes and mucociliary clearance. Retention of secretions, cell defects, atelectasis, and pneumonia may result.

Maximizing Physiological Water Retention

By maintaining the physiological lung atmosphere, the mucociliary clearance mechanism remains intact. This is essential to rid the lungs of particulate and microbial contamination. As passive humidifiers, the Pall HME20 and HME40 do not create water "rain out," a potential patient distress and infection risk associated with ICU ventilation.

Safety and Economy

The airflow resistance of both the Pall HME20 and HME40 has been validated not to increase significantly over the maximum use life of 48 hours.

Safety and outstanding performance make the Pall HME20 (pediatric/small adult size) and HME40 (adult size) the most effective and economical choices in modern airway humidification.

Technical Data

Specification	HME20	HME40
Housing Volume	30 mls	46 mls
ISO Connectors	15 mm (ID) and 22 mm (OD)	
Patient Side	15 mm (OD)	
Machine Side	15 mm (OD)	
Absolute Humidity (500 mL TV and 20 breaths/min)	29.1 mg H ₂ O/L	33.2 mg H ₂ O/L
Resistance at 60LPM	1.9 cm H ₂ O	

Ordering Information

Product Number	Description	Application	Pkg
HME20	Pall HME20 Heat and Moisture Exchanger	Pediatric/ Small Adult	50 filters per case
HME40	Pall HME40 Heat and Moisture Exchanger	Adult	50 filters per case

To place an order in the U.S.A., call 1.877.367.7255 or contact your local Pall Medical sales representative.

E-mail us at HospitalInsideSales@pall.com.



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