

HMEFs



Disposable heat and moisture exchangers with integrated bacterial/viral filter

Heat and Moisture Exchange Filters (HMEFs) reduce the need for cleaning and changing tubing and equipment and are convenient for health care personnel when compared to the use of active humidifiers. Datex-Ohmeda has the right combination of HMEFs for adult and pediatric patient situations in the intensive care unit, operating room or other respiratory care environments. All of Datex-Ohmeda's knowledge and experience in ventilation, humidification and work of breathing has been applied to the design of these HMEFs.

All Datex-Ohmeda HMEFs have the following features and benefits:

- Excellent moisture output reduces the need for active humidification.
- Low resistance to flow minimizes patient work of breathing.
- Low weight adds to patient comfort and safety.
- Latex-free construction offers safer use with all patients.
- Highly efficient filter protects patient, personnel and equipment from various microorganisms present in the breathing circuit.
- Transparent housing makes it easy to determine when to replace the HMEF.
- Sampling port and cap holder allows for convenient gas sampling proximal to the patient.
- All materials are selected to be environmental friendly when incinerated.
- All HMEFs have been tested by an independent test laboratory. *

* Data on file at Instrumentarium Corp.

Technical Data

	HMEF 1000	HMEF 750	HMEF 500	HMEF Mini
Tidal volume range (ml)	300-1000	120-750	120-500	60-500
Weight (g)	24	17	15	14
Filtration efficiency				
- Bacterial (%) ¹	99.9999	99.9999	99.999	99.999
- Viral (%) ¹	99.99	99.998	99.98	99.98
Moisture output (mg H ₂ O/l)				
- at V _T 250 ml ²	N/A	33	30	31
- at V _T 500 ml ²	33	30	28	27
- at V _T 750 ml ²	N/A	27	N/A	N/A
- at V _T 1000 ml ²	30	N/A	N/A	N/A
Moisture loss (mg H ₂ O/l)				
- at V _T 250 ml ²	N/A	4.5	7.5	6.5
- at V _T 500 ml ²	4.5	7.5	9.5	10.5
- at V _T 750 ml ²	N/A	10.5	N/A	N/A
- at V _T 1000 ml ²	7.5	N/A	N/A	N/A
Pressure drop kPa/cm H ₂ O				
- at 30 l/min ²	0.10/1.0	0.06/0.6	0.15/1.5	0.14/1.4
- at 60 l/min ²	0.23/2.3	0.13/1.3	0.33/3.3	0.32/3.2
Dead space (ml)	77	34	30	21
Connectors				
- Patient side	15 mm F / 22 mm M	15 mm F / 22 mm M	15 mm F / 22 mm M	15 mm F / 22 mm M
- Machine side	15 mm M / 22 mm F	15 mm M / 22 mm F	15 mm M / 22 mm F	15 mm M / 22 mm F
- Sampling port	Luer lock	Luer lock	Luer lock	Luer lock

¹ Measured at Nelson Laboratories USA. Records on file. ² Measured after pre-conditioning the product for 24 hours.

These products are in conformity with the relevant provisions of the Council Directive 93/42/EEC, concerning medical devices, Annex I - Essential Requirements.

Changing frequency

ICU: After every patient or every 24 hours when continuously used on the same patient

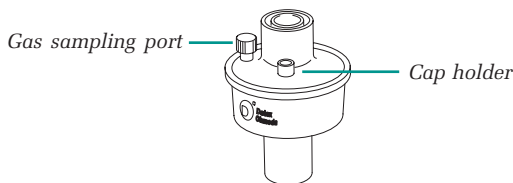
OR: After every patient

Contraindications

The HMEFs are contraindicated in patients producing fulminating frothy secretions within their airways and lungs.

The HMEFs shall not be used on patients with very small tidal volumes, for example neonates.

The HMEFs shall not be used together with active humidifiers or nebulizers.



Ordering information

Datex-Ohmeda HMEF 1000, pkg of 50 pcs
 Datex-Ohmeda HMEF 1000 with Flexible Tube, pkg of 30 pcs
 Datex-Ohmeda HMEF 1000 and Flexible Tube, pkg of 30 pcs
 Datex-Ohmeda HMEF 1000 with Flexible Tube and Double Swivel Elbow, pkg of 30 pcs
 Datex-Ohmeda HMEF 1000 with Memoflex, pkg of 40 pcs
 Datex-Ohmeda HMEF 1000 with Flexible Tube and Elbow Connector, pkg of 30 pcs
 Datex-Ohmeda HMEF 750, pkg of 50 pcs
 Datex-Ohmeda HMEF 750 with Memoflex, pkg of 50 pcs
 Datex-Ohmeda HMEF 500, pkg of 75 pcs
 Datex-Ohmeda HMEF 500 with Memoflex, pkg of 60 pcs
 Datex-Ohmeda HMEF Mini, pkg of 50 pcs

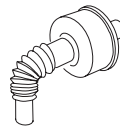
Connections

The HMEF should be fitted between the proximal end of the endotracheal tube or mask and the Y-piece of the breathing circuit.

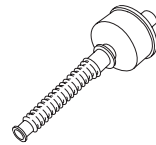
Instructions For Use

Always refer to the instructions for use which accompany the device for detailed use information.

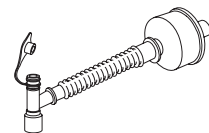
Configurations



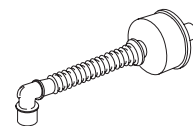
Datex-Ohmeda HMEF 1000, 750 or 500 with Memoflex



Datex-Ohmeda HMEF 1000 with Flexible Tube, ref. 557071500. (Also available not connected, ref. 557071600.)



Datex-Ohmeda HMEF 1000 with Flexible Tube and Double Swivel Elbow



Datex-Ohmeda HMEF 1000 with Flexible Tube and Elbow Connector

557070100
 557071500
 557071600
 557019500
 557085500
 8570203
 M1004132
 M1005260
 557070500
 557070700
 8004231



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