



# HMEF

Heat moisture exchangers  
with integrated bacterial/viral filters



## Vyaire HMEFs with integrated bacterial/viral filters

Our heat moisture exchangers with filters (HMEFs) reduce the need for cleaning tubing and equipment and are convenient for healthcare personnel when compared to the use of active humidifiers. These highly efficient filters help protect the patient, healthcare personnel and the equipment from various microorganisms present in the breathing circuit.

Our HMEF products meet filtration requirements for adult and pediatric applications in the operating room, intensive care unit and other respiratory care environments.

### Vyaire HMEFs feature:

- Demonstrated performance to meet humidification needs
- Designed for low breathing resistance to help reduce the patient's work of breathing
- Lightweight, adding to patient comfort
- Transparent housing makes it easy to determine replacement
- Sampling port allows for convenient gas sampling proximal to the patient

Vyaire products offer you and your patients efficient and effective humidification and filtration.

## Vyaire HMEFs

Part no.	Description
M1038637	HMEF 1000 without sampling port
557070100	HMEF 1000/S ( <i>gas sampling port</i> )
M1010534	Angled HMEF 1000/S ( <i>gas sampling port</i> )
M1038639	HMEF 750 without sampling port
M1004132	HMEF 750/S ( <i>gas sampling port</i> )
M1010538	Angled HMEF 750/S ( <i>gas sampling port</i> )
557070500	HMEF 500
8004231	HMEF Mini



Angled HMEFs are used without an additional elbow, thereby reducing weight and dead space as well as eliminating a possible disconnect point.

Our cap-and-strap feature attaches the sampling port cap to the HMEF, ensuring it does not get lost or misplaced.

## Vyaire HMEF technical data

	HMEF 1000, HMEF 1000/S, Angled HMEF 1000/S*	HMEF 750, HMEF 750/S, Angled HMEF 750/S*	HMEF 500	HMEF Mini
Tidal volume range (mL)	300–1,000	120–750	120–500	60–500
Filtration efficiency				
Bacterial (%)	99.9999	99.9999	99.999	99.999
Viral (%)	99.99	99.998	99.98	99.98
Moisture output (mgH <sub>2</sub> O/L) <sup>†</sup>				
VT 250 mL	N/A	32	31	31
VT 500 mL	33	30	30	27
VT 750 mL	32	27	N/A	N/A
VT 1000 mL	30	N/A	N/A	N/A
Moisture loss (mgH <sub>2</sub> O/L) <sup>†</sup>				
VT 250 mL	N/A	5.5	6.5	6.5
VT 500 mL	4.5	7.5	7.5	10.5
VT 750 mL	5.5	10.5	N/A	N/A
VT 1,000 mL	7.5	N/A	N/A	N/A
Pressure drop (kPa)(cmH <sub>2</sub> O) <sup>†</sup>				
30 L/min	0.10 (1.0)	0.09 (0.9)	0.15 (1.5)	0.14 (1.4)
60 L/min	0.23 (2.3)	0.22 (2.2)	0.33 (3.3)	0.32 (3.2)
Dead space (mL)	77	34	30	21
Weight (g)	24	17	15	14
Connectors				
Patient side (mm)	15 M/22 M	15 M/22 M	15 F/22 M	15 F/22 M
Machine side (mm)	15 M/22 F	15 M/22 F	15 M/22 F	15 M/22 F
Sampling port	1000: no 1000/S: yes Angled 1000/S: yes	750: no 750/S: yes 750: yes	Luer lock	Luer lock

### Notes

\* Connectors: Patient side (mm): 15 M.

These products conform with the relevant provisions of Council Directive 93/42/EEC, concerning medical devices, Annex I essential Requirements.

<sup>†</sup> Measured by Nelson Laboratories Inc., USA. Records on file. Measured according to standard ISO 9360:2000.

For more information, please contact your local Vyaire representative.

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