Pharma Systems

Protects and Humidifies

Heat & Moisture Exchangers (HME)

Humidification

Pharma Systems Heat & Moisture Exchangers (HME) are single-use devices designed to support the preservation of airway humidity and temperature by capturing heat and moisture from exhaled air and returning it during inhalation. This functionality contributes to maintaining the respiratory conditions, particularly when mechanical ventilation is performed.

The HMEs are intended for use when mechanical ventilation and other respiratory support therapies are performed and they:

- ✓ Support airway protection by maintaining mucosal hydration.
- ✓ Provide passive humidification of inspired gases.
- ✓ Reduce the need for active humidification systems.

When & Where

To use

HMEs are suitable for use in the following settings but not limited to:

Intensive Care Units (ICUs)
Home Care Environments
Transport Ventilation
Emergency Care
Operating Rooms (ORs)

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Pharma Systems

Respiratory solutions

Pharma Systems, a certified MedTech manufacturer based in Sweden, provides a comprehensive portfolio of Heat and Moisture Exchangers (HMEs), Bacterial/Viral Filters (BVFs) and combined HMEFs, developed for patients ranging from Neonates to Adults — whether intubated or tracheostomized.

All products are manufactured using certified, high-quality materials and incorporate advanced filtration technologies to support reliable clinical performance in demanding healthcare environments.

Pharma Systems' entire product line is fully compliant with MDR and holds ISO, FDA, and CE certifications, ensuring the highest standards of safety, performance, and regulatory compliance.

HME

BVF

HMEF

Pharma Trach

Pharma Systems

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Heat & Moisture Exchangers (HMEs)

	HME 10 Basic	HME 10 Port	HME 10 Port 2	HME 10 Port Angle	HME Midi 11 Port	HME Midi 11 Angle	HME 12 Basic	HME 12 Port
Product code	6060	6063	6065	6061	6305	6307	6070	6072
Dead space	26 ml	23 ml	23 ml	23 ml	47 ml	47 ml	75 ml	77 ml
Tidal volume	50-900 ml	50-900 ml	50-900 ml	50-900 ml	100-1200 ml	100-1200 ml	250-1500 ml	250-1500 ml
Flow resistance 15 L/min	0,3 cm H_2O/30 Pa	0,3 cm H_2O/30 Pa	0,3 cm H_2O/30 Pa	0,3 cm H_2O/30 Pa	0,3 cm H_2O/27 Pa	0,3 cm H_2O/27 Pa	0,15 cm H_2O/15 Pa	0,15 cm H_2O/15 Pa
Flow resistance 30 L/min	0,7 cm H_2O/70 Pa	0,7 cm H_2O/70 Pa	0,7 cm H_2O/70 Pa	0,7 cm H_2O/70 Pa	0,7 cm H_2O/70 Pa	0,7 cm H_2O/70 Pa	0,4 cm H_2O/40 Pa	0,4 cm H_2O/40 Pa
Flow resistance 60 L/min	1,8 cm H_2O/180 Pa	1,8 cm H_2O/180 Pa	1,8 cm H_2O/180 Pa	1,8 cm H_2O/180 Pa	1,8 cm H_2O/175 Pa	1,8 cm H_2O/175 Pa	1,1 cm H_2O/110 Pa	1,1 cm H_2O/110 Pa
Moisture return (output) at Vt 250 ml	32 mg H_2O/L air	32 mg H_2O/L air	32 mg H_2O/L air	32 mg H_2O/L air	33 mg H_2O/L air	33 mg H_2O/L air	33 mg H_2O/L air	33 mg H_2O/L air
Moisture return (output) at Vt 500 ml	32 mg H_2O/L air	32 mg H_2O/L air	32 mg H_2O/L air	32 mg H_2O/L air	33 mg H_2O/L air	33 mg H_2O/L air	33 mg H_2O/L air	33 mg H_2O/L air
Capnography port	No	Yes	Yes	Yes	Yes	Yes	No	Yes
Patient connection	15F/22M	15F/22M	15F/22M	15F/22M	15F/22M	15F/22M	22F/15M	22F/15M
Ventilator connection	15M	15M	15M	15M	15M/22M	15M	22F	15M/22F
Weight	16 g	15 g	15 g	15 g	29 g	29 g	32 g	32 g

Always follow Instructions For Use (IFU).
All products are intended for single use, available as sterile and are available with tethered cap.

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