



## KIMBERLY-CLARK\* BALLARD\* Heat and Moisture Exchangers and Filters



Kimberly-Clark/Ballard, a world leader in tracheal and endotracheal closed suction systems, offers Heat and Moisture Exchangers (HMEs), Filtering Heat and Moisture Exchangers (HMEFs) and Filters designed with the same quality as our BALLARD\* TRACH CARE\* products. Our HMEs enhance humidification, our HMEFs humidify and filter, and our filters help provide filtration of bacteria and viruses. All three devices are designed to help ventilator patients in critical care and anesthesia.

### HMEs: Effective Moisture, Heat Retention

Our HMEs ensure effective moisture and heat retention, minimizing the moisture loss of the patient. Features include:

- low resistance to flow
- light weight
- flexible designs for different tidal volumes.

### HMEFs: One Product, Two Uses

Our HMEFs humidify and help reduce the transfer of bacteria and viruses between the patient and practitioner. HMEFs are cost effective devices because they reduce the need for expensive, heated humidification systems, and provide filtration of circuits, for ventilator patients.

#### Features include:

- meets AARC Clinical Practice Guidelines for minimum moisture output
- low breathing resistance
- luer-lock port for gas sampling
- electrostatic filtration for attracting bacteria and viruses
- co-axial connection ports for greater connector flexibility
- hygroscopic additive for retaining humidity
- 99.999999% bacterial filtration
- 99.99% viral filtration.

KIMBERLY-CLARK\* BALLARD\* Heat and Moisture Exchangers and Filters is just one of the clinical solutions that you can depend on to meet the demands of your fast-paced world.

Whether your needs involve preventing healthcare-associated infections, surgical and digestive solutions or pain management, with Kimberly-Clark you'll always have one less worry.



**Kimberly-Clark**

*Trusted Clinical Solutions\**

# KIMBERLY-CLARK\* BALLARD\*

## Heat and Moisture Exchangers and Filters

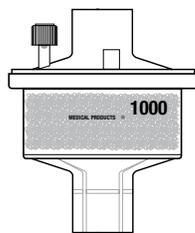
### Product Technical Data

	Stock #151	Stock #152	Stock #153	Stock #150	Stock #1156	Stock #157	Stock #154	Stock #159
	HME	HME	HME	HME with Built-in Flex Tube	Trach HME	HME Combination Filtering	"Y"-Filter	Stand-Alone Filter
<b>Technical Data</b>	500	100	1500	Flex	Trach	F/HME	Y/Fil	S/Fil
<b>Dead Space, ml</b>	17	28	38	90	16	77	9	35
<b>TV range-up to, ml</b>	500	1000	1500	1500	1000	1000		
<b>Weight, g</b>	6	8	9	20	6	24	37	16
<b>Connectors</b>								
Patient side	22m/15f	22m/15f	22m/15f	15f	15f	15f/22m	15f/22m	15f/22m
Machine side	15m	15m	15m	22f	n/a	15m/22f	2 x 22m	15m/22f
<b>Resistance, (cmH<sub>2</sub>O)</b>								
30 l/min	0.8	1.0	1.0	0.5	n/a	1.0 <sup>3</sup>	0.8	0.8 <sup>3</sup>
60 l/min	2.0	2.5	2.5	1.4	0.2	2.3 <sup>3</sup>	1.9	2.3 <sup>3</sup>
<b>Moisture output (After 24 h)</b>								
mgH <sub>2</sub> O/ l	30	30	30	30	24	30	n/a	n/a
at vt, ml	250	500	1000	1000	500	1000	n/a	n/a
<b>Filtration Efficiency</b>								
Bacterial (%)	n/a	n/a	n/a	n/a	n/a	99.99999 <sup>1</sup>	99.9 <sup>2</sup>	99.99999 <sup>1</sup>
Viral (%)	n/a	n/a	n/a	n/a	n/a	99.99 <sup>1</sup>	99.9 <sup>2</sup>	99.99 <sup>1</sup>

<sup>1</sup> Measured by the method of CAMR, UK Records on file.

<sup>2</sup> Measured by the method of AB Sangtec Medical, Sweden, and Nelson Lab. Inc., USA. Records on file.

<sup>3</sup> Measured after pre-conditioning the product for 24 hours.



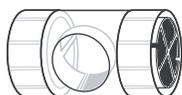
### Ordering Information

Stock #	Approximate Tidal Volume	Description	Packaging
150	1500	HME with Built-In Flex Tube	50/Case
151	500	HME	50/Case
152	1000	HME	50/Case
153	1500	HME	50/Case
154	Universal Use	"Y"-Filter	25/Case
157	1000	Filtering-HME Combination	25/Case
159	Universal Use	Stand Alone Filter	25/Case
1156	n/a	Trach HME	50/Case

### Optional Accessories

#### KIMBERLY-CLARK\* Pediatric T Tracheostomy Heat and Moisture Exchanger (HME) CMS Reimbursement Code - A4483

#### Pediatric HME



Stock #	Dead Space	Tidal Volume Range Up To	Weight	Patient Side Connectors	Resistance 30 l/min (cmH <sub>2</sub> O)	Moisture Output (after 24 hours) H <sub>2</sub> O/l (VT 500 ml/min)	Packaging
1157	12 ml	500 ml	4g	15 mm Female	0.25	26 ml	50/Case

#### Unit Dose Saline



#### KIMBERLY-CLARK\* BALLARD\* TRACH CARE\* Accessories

Stock #	Description	Packaging
116	15 ml Unit Dose Saline 0.9%	144/Case



### Commitment to Excellence

If, for any reason, our products do not meet your expectations, please let us know your comments or suggestions for improvement. Your input will result in a concerted effort on our part to meet your requirements. Our goal is to provide quality products that completely meet your needs time after time.

For more information, please call 1-800-KCHELPS in the United States, or visit our web site at [www.kchealthcare.com](http://www.kchealthcare.com).

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HME and filter products manufactured by Datex/Ohmeda.

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