

**altech**<sup>®</sup>

a Medtiera Company

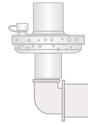
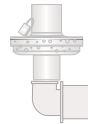
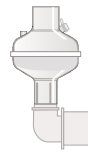
# Filters

## Bacterial Viral Filters

- Dedicated to the quality, committed to enhancing patient care
- Altech provides you with simple, cost effective, secure solutions and the best filtration efficiency for your respiratory patient.
- To help you minimize filtration challenges, we offer a comprehensive line of high-performance breathing filters.
- Each Altech branded filter provides its own unique advantages to maximize the clinical outcomes for filtration when used with multiple ventilator applications, such as noninvasive, invasive or anesthesia procedures.
- Our filters may help reduce the risk of possible hospital- or ventilator-acquired patient infections and may help create a safer environment for the caregiver by minimizing bacterial and viral particle penetration.



BACTERIAL-VIRAL FILTER		BACTERIAL-VIRAL FILTER		BACTERIAL-VIRAL FILTER	
SBC raw material		SBC raw material		PP raw material	
<b>Code</b>	AL-08002	AL-08018	AL-08023	AL-08023/1	AL-08023/1
<b>Sterile Code</b>	AL-080029	AL-080189	AL-080239	AL-080239/1	AL-080239/1
<b>Qty/Box</b>	50	50	50	45	45
<b>Tidal volume (ml)</b>	150-1500	150-1500	150-1500	150-1500	150-1500
<b>Dead Space (ml)</b>	77	33	33	36	36
<b>Bacterial Efficiency</b>	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.9999%
<b>Viral Efficiency</b>	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.9999%
<b>Resistance to Flow</b>	30 L/min 4.1 mm H <sub>2</sub> O	30 L/min 4.3 mm H <sub>2</sub> O	30 L/min 5 mm H <sub>2</sub> O	30 L/min 4.5 mm H <sub>2</sub> O	30 L/min 5.5 mm H <sub>2</sub> O
	60 L/min 11.6 mm H <sub>2</sub> O	60 L/min 12 mm H <sub>2</sub> O	60 L/min 14 mm H <sub>2</sub> O	60 L/min 12.5 mm H <sub>2</sub> O	60 L/min 14.5 mm H <sub>2</sub> O
	90 L/min 24.6 mm H <sub>2</sub> O	90 L/min 25 mm H <sub>2</sub> O	90 L/min 27.6 mm H <sub>2</sub> O	90 L/min 25.5 mm H <sub>2</sub> O	90 L/min 28 mm H <sub>2</sub> O
<b>Weight (gr)</b>	23	19	21	26.5	26.5
<b>Fittings</b>	22mmM-15/22mmMF	22mmM-15/22mmMF	22mmM-15/22mmMF	22mmM-15/22mmMF	22mmM-15/22mmMF



BACTERIAL-VIRAL FILTER Angled		BACTERIAL-VIRAL FILTER Angled		BACTERIAL-VIRAL FILTER Angled	
SBC raw material		SBC raw material		PP raw material	
<b>Code</b>	AL-08002/1	AL-08018/1	AL-08023/1	AL-08023/1	AL-08023/1
<b>Sterile Code</b>	AL-080029/1	AL-080189/1	AL-080239/1	AL-080239/1	AL-080239/1
<b>Qty/Box</b>	45	45	45	45	45
<b>Tidal volume (ml)</b>	150-1500	150-1500	150-1500	150-1500	150-1500
<b>Dead Space (ml)</b>	80	36	36	36	36
<b>Bacterial Efficiency</b>	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.9999%
<b>Viral Efficiency</b>	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.9999%
<b>Resistance to Flow</b>	30 L/min 4.5 mm H <sub>2</sub> O	30 L/min 4.5 mm H <sub>2</sub> O	30 L/min 5.5 mm H <sub>2</sub> O	30 L/min 4.5 mm H <sub>2</sub> O	30 L/min 5.5 mm H <sub>2</sub> O
	60 L/min 12 mm H <sub>2</sub> O	60 L/min 12.5 mm H <sub>2</sub> O	60 L/min 14.5 mm H <sub>2</sub> O	60 L/min 12 mm H <sub>2</sub> O	60 L/min 14.5 mm H <sub>2</sub> O
	90 L/min 25 mm H <sub>2</sub> O	90 L/min 25.5 mm H <sub>2</sub> O	90 L/min 28 mm H <sub>2</sub> O	90 L/min 25 mm H <sub>2</sub> O	90 L/min 28 mm H <sub>2</sub> O
<b>Weight (gr)</b>	28.5	24.5	26.5	26.5	26.5
<b>Fittings</b>	22mmM-15/22mmMF	22 mmM -15/22 mmMF	22 mmM -15/22 mmMF	22 mmM -15/22 mmMF	22 mmM -15/22 mmMF

## Bacterial Viral HME Filters

- Bacterial Efficiency %99.9999
- High level of moisture output
- Small and paediatric versions
- Coupled with a hydrophobic bacterial viral filter membrane
- Rounded ergonomic housing
- Sterile or Clean
- Standard Retainable Monitoring Cap
- High level of moisture output(>33mgH<sub>2</sub>O/L)
- Hygroscopic cellulose or foam HME Media
- ISO Standard Connectors
- Individually Packed



BACTERIAL-VIRAL/HME Filter		BACTERIAL-VIRAL/HME Filter with paper HME		BACTERIAL-VIRAL/HME Filter with foam HME	
SBC raw material		SBC raw material		SBC raw material	
<b>Code</b>	AL-08006	AL-08016	AL-08020	AL-08020	AL-08020
<b>Sterile Code</b>	AL-080069	AL-080169	AL-080209	AL-080209	AL-080209
<b>Qty/Box</b>	50	50	50	50	50
<b>Tidal volume (ml)</b>	150-1500	150-1500	150-1500	150-1500	150-1500
<b>Dead Space (ml)</b>	77	53	53	53	53
<b>Bacterial Efficiency</b>	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.9999%
<b>Viral Efficiency</b>	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.9999%
<b>Resistance to Flow</b>	30 L/min 8.4 mm H <sub>2</sub> O	30 L/min 9.4 mm H <sub>2</sub> O	30 L/min 6 mm H <sub>2</sub> O	30 L/min 6 mm H <sub>2</sub> O	30 L/min 6 mm H <sub>2</sub> O
	60 L/min 19.9 mm H <sub>2</sub> O	60 L/min 23.2 mm H <sub>2</sub> O	60 L/min 16.5 mm H <sub>2</sub> O	60 L/min 16.5 mm H <sub>2</sub> O	60 L/min 16.5 mm H <sub>2</sub> O
	90 L/min 38.2 mm H <sub>2</sub> O	90 L/min 42 mm H <sub>2</sub> O	90 L/min 32 mm H <sub>2</sub> O	90 L/min 32 mm H <sub>2</sub> O	90 L/min 32 mm H <sub>2</sub> O
<b>Weight (gr)</b>	24	30	24	24	24
<b>Fittings</b>	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF
<b>Humidification efficiency</b>	38.6mgH <sub>2</sub> O/L (@500 ml tid, vol.)	36.8 mgH <sub>2</sub> O/L (@500 ml tid, vol.)	36.8 mgH <sub>2</sub> O/L (@500 ml tid, vol.)	36.8 mgH <sub>2</sub> O/L (@500 ml tid, vol.)	37.5 mgH <sub>2</sub> O/L (@500 ml tid, vol.)



BACTERIAL-VIRAL/HME Filter Angled		BACTERIAL-VIRAL/HME Filter Angled		BACTERIAL-VIRAL/HME Filter Angled	
SBC raw material		SBC raw material		PP raw material	
<b>Code</b>	AL-08006/1	AL-08016/1	AL-08020/1	AL-08020/1	AL-08020/1
<b>Sterile Code</b>	AL-080069/1	AL-080169/1	AL-080209/1	AL-080209/1	AL-080209/1
<b>Qty/Box</b>	45	45	45	45	45
<b>Tidal volume (ml)</b>	150-1500	150-1500	150-1500	150-1500	150-1500
<b>Dead Space (ml)</b>	80	55	55	55	55
<b>Bacterial Efficiency</b>	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.9999%
<b>Viral Efficiency</b>	>99.9999%	>99.9999%	>99.9999%	>99.9999%	>99.9999%
<b>Resistance to Flow</b>	30 L/min 4 mm H <sub>2</sub> O	30 L/min 3.5 mm H <sub>2</sub> O	30 L/min 3.5 mm H <sub>2</sub> O	30 L/min 3.5 mm H <sub>2</sub> O	30 L/min 3.5 mm H <sub>2</sub> O
	60 L/min 17 mm H <sub>2</sub> O	60 L/min 23.5 mm H <sub>2</sub> O	60 L/min 17 mm H <sub>2</sub> O	60 L/min 17 mm H <sub>2</sub> O	60 L/min 17 mm H <sub>2</sub> O
	90 L/min 32 mm H <sub>2</sub> O	90 L/min 42.5 mm H <sub>2</sub> O	90 L/min 32.5 mm H <sub>2</sub> O	90 L/min 32.5 mm H <sub>2</sub> O	90 L/min 32.5 mm H <sub>2</sub> O
<b>Weight (gr)</b>	29.5	36	29.5	29.5	29.5
<b>Fittings</b>	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF
<b>Humidification efficiency</b>	33.6mgH <sub>2</sub> O/L (@500 ml tid, vol.)	35 mgH <sub>2</sub> O/L (@500 ml tid, vol.)	35 mgH <sub>2</sub> O/L (@500 ml tid, vol.)	35 mgH <sub>2</sub> O/L (@500 ml tid, vol.)	37.1 mgH <sub>2</sub> O/L (@500 ml tid, vol.)

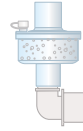
## Bacterial Viral HME Filters

- Bacterial Efficiency %99.9999
- High level of moisture output
- Small and paediatric versions
- Coupled with a hydrophobic bacterial viral filter membrane
- Rounded ergonomic housing
- Sterile or Clean
- Standart Retainable Monitoring Cap
- High level of moisture output(>33mgH<sub>2</sub>O/L)
- Hygroscopic cellulose or foam HME Media
- ISO Standart Connectors
- Individually Packed



BACTERIAL-VIRAL/HME Filter with paper

Code	PP raw material	BACTERIAL-VIRAL/HME Filter with foam HME
<b>Sterile Code</b>	AL-08022	AL-080219
<b>Qty/Box</b>	AL-080229	50
<b>Tidal volume (ml)</b>	150-1500	150-1500
<b>Dead Space (ml)</b>	55	55
<b>Bacterial-Viral Efficiency</b>	>99.9999%	>99.9999%
<b>Viral Efficiency</b>	>99.9999%	>99.9999%
<b>Resistance to Flow</b>	30l/min 8.2 mm H <sub>2</sub> O 60l/min 21.4 mm H <sub>2</sub> O 90l/min 39.5 mm H <sub>2</sub> O	30l/min 6.5 mm H <sub>2</sub> O 60l/min 17.2 mm H <sub>2</sub> O 90l/min 33 mm H <sub>2</sub> O
<b>Weight (gr)</b>	35.6	28.5
<b>Fittings</b>	22mmM - 15/22mmMF 37 mg H <sub>2</sub> O/L (@600 ml tid, vol.)	22mmM - 15/22mmMF 35.5 mg H <sub>2</sub> O/L (@600 ml tid, vol.)
<b>Humidification efficiency</b>		



BACTERIAL-VIRAL/HME Filter Angled with paper

Code	PP raw material	BACTERIAL-VIRAL/HME Filter Angled with foam
<b>Sterile Code</b>	AL-080221	AL-08021/21
<b>Qty/Box</b>	AL-080229/1	AL-080219/1
<b>Tidal volume (ml)</b>	150-1500	150-1500
<b>Dead Space (ml)</b>	45	45
<b>Bacterial-Viral Efficiency</b>	>99.9999%	>99.9999%
<b>Viral Efficiency</b>	>99.9999%	>99.9999%
<b>Resistance to Flow</b>	30l/min 8.5 mm H <sub>2</sub> O 60l/min 21.5 mm H <sub>2</sub> O 90l/min 40 mm H <sub>2</sub> O	30l/min 7 mm H <sub>2</sub> O 60l/min 17.5 mm H <sub>2</sub> O 90l/min 33.5 mm H <sub>2</sub> O
<b>Weight (gr)</b>	41	34
<b>Fittings</b>	22mmM - 15/22mmMF 37.5 mg H <sub>2</sub> O/L (@600 ml tid, vol.)	22mmM - 15/22mmMF 36.5 mg H <sub>2</sub> O/L (@600 ml tid, vol.)
<b>Humidification efficiency</b>		

## Pediatric & Neonatal Filters

- Ideal electrostatic filtration performance
- Flat ergonomic design
- Small and light weight
- Cost effective
- Gas sampling port
- Optimised for paediatric and infant patients
- Effective solution on patient undergoing short term ventilation
- Latex free



BACTERIAL VIRAL FILTER PEDIATRIC

Code	SBC raw material	BACTERIAL VIRAL HME FILTER PEDIATRIC	BACTERIAL VIRAL HME FILTER NEONATAL
<b>Sterile Code</b>	AL-08030	AL-08031	AL-08032
<b>Qty/Box</b>	AL-080309	AL-080319	AL-080329
<b>Tidal volume (ml)</b>	150-1200 ml	75-300ml	30-100 ml
<b>Dead Space (ml)</b>	31 ml	29 ml	10 ml
<b>Bacterial-Viral Efficiency</b>	%99.9999	%99.9999	%99.9999
<b>Viral Efficiency</b>	%99.9999	%99.9999	%99.9999
<b>Resistance to Flow</b>	30L/min - 8 mm H <sub>2</sub> O	15L/min - 6 mm H <sub>2</sub> O	5L/min - 6 mm H <sub>2</sub> O
<b>Weight (gr)</b>	19	21	9
<b>Fittings</b>	22F-15M / 22M-15F	22F-15M / 22M-15F	15 M-15F
<b>Humidification efficiency</b>	-	@250ml TV 31 mg H <sub>2</sub> O/L	@50ml TV 29 mg H <sub>2</sub> O/L



BACTERIAL VIRAL HME FILTER PEDIATRIC

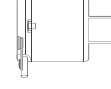


BACTERIAL VIRAL HME FILTER NEONATAL

## BACTERIAL VIRAL HME FILTERS

## PEDIATRIC & NEONATAL FILTERS

## Tracheostomy HME



Tracheostomy HME



Tracheostomy HME with Oxygen Tubing

Code	Sterile Code	Qty/Box	Moisture exchange surf.	Dead Space (ml)	Humidification efficiency	Resistance to Flow initial	Weight (gr)	Connections
AL-08025	AL-080259	100	500 cm <sup>2</sup>	15	1hr: 27.5mgH <sub>2</sub> O/L 24hr: 28.8mgH <sub>2</sub> O/L	0.63 cmH <sub>2</sub> O (60 L/min) 1.8 cmH <sub>2</sub> O (60 L/min) 3.5 cmH <sub>2</sub> O (60 L/min)	8.4	15F, oxygen port: 5.5mm, suctioning port: 6.1mm
AL-08026	AL-080269	50	500 cm <sup>2</sup>	15	1hr: 27.5mgH <sub>2</sub> O/L 24hr: 28.8mgH <sub>2</sub> O/L	0.63 cmH <sub>2</sub> O (60L/min) 1.8 cmH <sub>2</sub> O (60 L/min) 3.5 cmH <sub>2</sub> O (60 L/min)	10	15F, oxygen port: 5.5mm, suctioning port: 6.1mm

- Central port for suctioning & sampling
- Extreme low resistance
- Suitable for adult and children
- Recommended use: for patients over 15kg.
- Paper Media