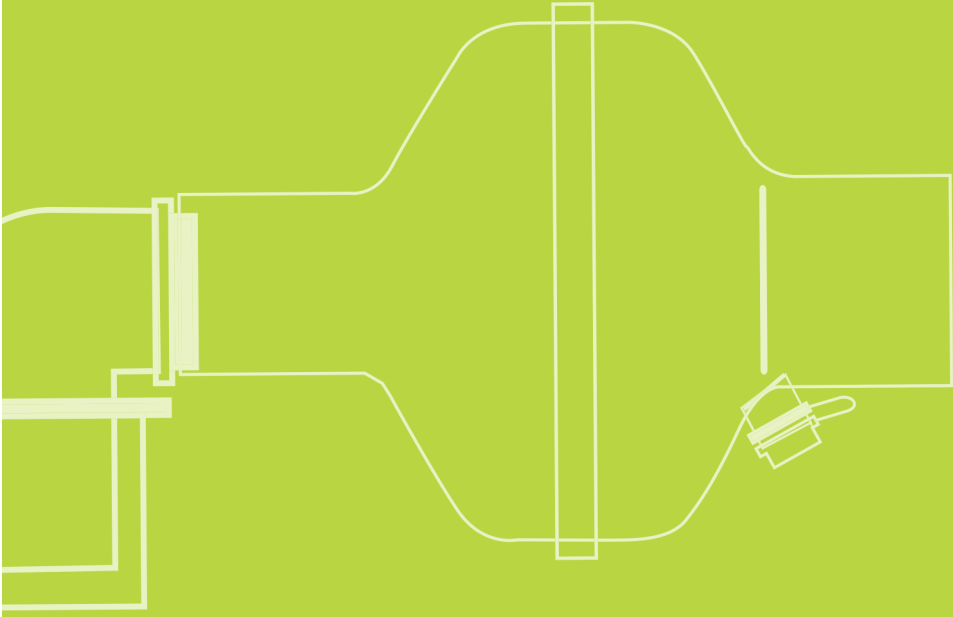




altech[®]

a Mediterra Company

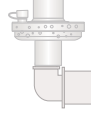
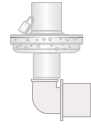
Filters

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		PP raw material	
Code	AL-08002	AL-08018	AL-08023
Sterile Code	AL-080029	AL-080189	AL-080239
Qty/Box	50	50	50
Tidal volume (ml)	150-1500	150-1500	150-1500
Dead Space (ml)	77	33	33
Bacterial Efficiency	>99.999%	>99.999%	>99.999%
Viral Efficiency	>99.999%	>99.999%	>99.999%
Resistance to Flow	30 L/min 4.1 mm H ₂ O 60 L/min 11.6 mm H ₂ O 90 L/min 24.6 mm H ₂ O	30 L/min 4.3 mm H ₂ O 60 L/min 12 mm H ₂ O 90 L/min 25 mm H ₂ O	30 L/min 4.3 mm H ₂ O 60 L/min 14 mm H ₂ O 90 L/min 27.6 mm H ₂ O
Weight (gr)	23	19	21
Fittings	22mmM-15/22mmMF	22mmM - 15/22mmMF	22mmM - 15/22mmMF



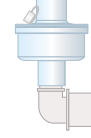
BACTERIAL-VIRAL FILTER		BACTERIAL-VIRAL FILTER	BACTERIAL-VIRAL FILTER
SBC raw material		PP raw material	
Code	AL-08002/1	AL-08018/1	AL-08023/1
Sterile Code	AL-080029/1	AL-080189/1	AL-080239/1
Qty/Box	45	45	45
Tidal volume (ml)	150-1500	150-1500	150-1500
Dead Space (ml)	80	36	36
Bacterial Efficiency	>99.999%	>99.999%	>99.999%
Viral Efficiency	>99.999%	>99.999%	>99.999%
Resistance to Flow	30 L/min 4.5 mm H ₂ O 60 L/min 12 mm H ₂ O 90 L/min 25 mm H ₂ O	30 L/min 4.5 mm H ₂ O 60 L/min 12.5 mm H ₂ O 90 L/min 25.5 mm H ₂ O	30 L/min 5.5 mm H ₂ O 60 L/min 14.5 mm H ₂ O 90 L/min 28 mm H ₂ O
Weight (gr)	28.5	24.5	26.5
Fittings	22mmM-15/22mmMF	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(>33mgH₂O/L)
- Hydroscopic cellulose or foam HME Media
- ISO Standard Connectors
- Individually Packed



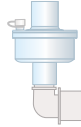
BACTERIAL-VIRAL/HME Filter		BACTERIAL-VIRAL/HME Filter with paper HME	BACTERIAL-VIRAL/HME Filter with foam HME
SBC raw material		SBC raw material	
Code	AL-08006	AL-08016	AL-08020
Sterile Code	AL-080069	AL-080169	AL-080209
Qty/Box	50	50	50
Tidal volume (ml)	150-1500	150-1500	150-1500
Dead Space (ml)	77	53	53
Bacterial Efficiency	>99.999%	>99.999%	>99.999%
Viral Efficiency	>99.999%	>99.999%	>99.999%
Resistance to Flow	30 L/min 8.4 mm H ₂ O 60 L/min 19.9 mm H ₂ O 90 L/min 38.2 mm H ₂ O	30 L/min 9.4 mm H ₂ O 60 L/min 23.2 mm H ₂ O 90 L/min 42 mm H ₂ O	30 L/min 6 mm H ₂ O 60 L/min 16.5 mm H ₂ O 90 L/min 32 mm H ₂ O
Weight (gr)	24	30	24
Fittings	22 mmM-15/22 mmMF	22 mmM -15/22 mmMF	22 mmM -15/22 mmMF
Humidification efficiency	38.6mgH ₂ O/L (@500 ml tid, vol.)	36.8 mgH ₂ O/L (@500 ml tid, vol.)	37.5 mgH ₂ O/L (@500 ml tid, vol.)



BACTERIAL-VIRAL/HME Filter Angled		BACTERIAL-VIRAL/HME Filter Angled	BACTERIAL-VIRAL/HME Filter Angled
SBC raw material		PP raw material	
Code	AL-08006/1	AL-08016/1	AL-08020/1
Sterile Code	AL-080069/1	AL-080169/1	AL-080209/1
Qty/Box	45	45	45
Tidal volume (ml)	150-1500	150-1500	150-1500
Dead Space (ml)	80	55	55
Bacterial Efficiency	>99.999%	>99.999%	>99.999%
Viral Efficiency	>99.999%	>99.999%	>99.999%
Resistance to Flow	30 L/min 4 mmvH ₂ O 60 L/min 17 mmvH ₂ O 90 L/min 32 mmvH ₂ O	30 L/min 4.5 mm H ₂ O 60 L/min 23.5 mm H ₂ O 90 L/min 42.5 mm H ₂ O	30 L/min 6.5 mmvH ₂ O 60 L/min 17 mmvH ₂ O 90 L/min 32.5 mmvH ₂ O
Weight (gr)	29.5	36	29.5
Fittings	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF	22 mmM-15/22 mmMF
Humidification efficiency	33.6mgH ₂ O/L (@500 ml tid, vol.)	35 mgH ₂ O/L (@500 ml tid, vol.)	37.1 mgH ₂ O/L (@500 ml tid, vol.)

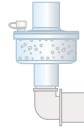
Bacterial Viral HME Filters

- 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(>33mgH₂O/L)
- Hygroscopic cellulose or foam HME Media
- ISO Standart Connectors
- Individually Packed



BACTERIAL-VIRAL-HME
Filter with paper

Code	Sterile Code	PP raw material	BACTERIAL-VIRAL-HME Filter with foam HME	PP raw material
	AL-08022	AL-080229	AL-08021	AL-080219
Qty/Box	50	50	50	50
Tidal volume (ml)	150-1500	150-1500	150-1500	150-1500
Dead Space (ml)	55	55	55	55
Bacterial-Viral Efficiency	>99.9999%	>99.9999%	>99.9999%	>99.9999%
Viral Efficiency	>99.999%	>99.999%	>99.999%	>99.999%
Resistance to Flow	30L/min 8.2 mm H ₂ O 60L/min 21.4 mm H ₂ O 90L/min 39.5 mm H ₂ O	30L/min 8.2 mm H ₂ O 60L/min 21.4 mm H ₂ O 90L/min 39.5 mm H ₂ O	30L/min 6.5 mm H ₂ O 60L/min 17.2 mm H ₂ O 90L/min 33 mm H ₂ O	30L/min 6.5 mm H ₂ O 60L/min 17.2 mm H ₂ O 90L/min 33 mm H ₂ O
Weight (gr)	35.6	35.6	28.5	28.5
Fittings	22mmM - 15/22mmMF	22mmM - 15/22mmMF	22mmM - 15/22mmMF	22mmM - 15/22mmMF
Humidification efficiency	37 mg H ₂ O/L (@500 ml tid. vol.)	37 mg H ₂ O/L (@500 ml tid. vol.)	35.5 mg H ₂ O/L (@500 ml tid. vol.)	35.5 mg H ₂ O/L (@500 ml tid. vol.)



BACTERIAL-VIRAL-HME
Filter Angled with paper

Code	Sterile Code	PP raw material	BACTERIAL-VIRAL-HME Filter Angled with foam HME	PP raw material
	AL-080221	AL-080229/1	AL-08021/1	AL-080219/1
Qty/Box	45	45	45	45
Tidal volume (ml)	150-1500	150-1500	150-1500	150-1500
Dead Space (ml)	57	57	57	57
Bacterial-Viral Efficiency	>99.9999%	>99.9999%	>99.9999%	>99.9999%
Viral Efficiency	>99.999%	>99.999%	>99.999%	>99.999%
Resistance to Flow	30L/min 8.5 mm H ₂ O 60L/min 21.5 mm H ₂ O 90L/min 40 mm H ₂ O	30L/min 8.5 mm H ₂ O 60L/min 21.5 mm H ₂ O 90L/min 40 mm H ₂ O	30L/min 7 mm H ₂ O 60L/min 17.5 mm H ₂ O 90L/min 33.5 mm H ₂ O	30L/min 7 mm H ₂ O 60L/min 17.5 mm H ₂ O 90L/min 33.5 mm H ₂ O
Weight (gr)	41	41	34	34
Fittings	22mmM - 15/22mmMF	22mmM - 15/22mmMF	22mmM - 15/22mmMF	22mmM - 15/22mmMF
Humidification efficiency	37.5 mg H ₂ O/L (@500 ml tid. vol.)	37.5 mg H ₂ O/L (@500 ml tid. vol.)	36.5 mg H ₂ O/L (@500 ml tid. vol.)	36.5 mg H ₂ O/L (@500 ml tid. vol.)

Pediatric&Neonatal Filters

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



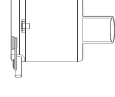
BACTERIAL VIRAL FILTER
PEDIATRIC

BACTERIAL VIRAL HME FILTER
PEDIATRIC

BACTERIAL VIRAL HME FILTER
NEONATAL

Code	Sterile Code	SBC raw material	BACTERIAL VIRAL HME FILTER PEDIATRIC	SBC raw material	BACTERIAL VIRAL HME FILTER PEDIATRIC	BACTERIAL VIRAL HME FILTER NEONATAL	SBC raw material
	AL-08030	AL-080309	AL-08031	AL-080319	AL-08032	AL-080329	AL-08032
Qty/Box	50	50	50	50	50	50	50
Tidal volume (ml)	150-1200 ml	150-1200 ml	75-300ml	75-300ml	30-100 ml	30-100 ml	30-100 ml
Dead Space (ml)	31 ml	31 ml	29 ml	29 ml	10 ml	10 ml	10 ml
Bacterial-Viral Efficiency	%99.9999	%99.9999	%99.9999	%99.9999	%99.9999	%99.9999	%99.9999
Viral Efficiency	%99.999	%99.999	%99.999	%99.999	%99.999	%99.999	%99.999
Resistance to Flow	30L/min - 8 mm H ₂ O	30L/min - 8 mm H ₂ O	15L/min - 6 mm H ₂ O	15L/min - 6 mm H ₂ O	5L/min - 6 mm H ₂ O	5L/min - 6 mm H ₂ O	5L/min - 6 mm H ₂ O
Weight (gr)	19	19	21	21	9	9	9
Fittings	22F-15M / 22M-15F	22F-15M / 22M-15F	22F-15M / 22M-15F	22F-15M / 22M-15F	15 M-15F	15 M-15F	15 M-15F
Humidification efficiency	-	-	@250ml TV 31 mg H ₂ O/L	@250ml TV 31 mg H ₂ O/L	@50ml TV 29 mg H ₂ O/L	@50ml TV 29 mg H ₂ O/L	@50ml TV 29 mg H ₂ O/L

Tracheostomy HME



Code	Sterile Code	Qty/Box	Moisture exchange surf.	Dead Space (ml)	Humidification efficiency	Resistance to Flow initial	Weight (gr)	Connections
	AL-08025	100	500 cm ²	15	1hr: 27.5mgH ₂ O/L 24hr: 28.8mgH ₂ O/L	0.63 cmH ₂ O (30L/min) 1.8 cmH ₂ O (60 L/min) 3.5 cmH ₂ O (80 L/min)	8,4	15F, oxygen port: 5.5mm, suctioning port: 6.1mm
	AL-080269	50	500 cm ²	15	1hr: 27.5mgH ₂ O/L 24hr: 28.8mgH ₂ O/L	0.63 cmH ₂ O (30L/min) 1.8 cmH ₂ O (60 L/min) 3.5 cmH ₂ O (80 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