

altech[®]

a Medtiera Company

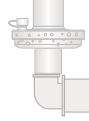
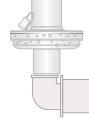
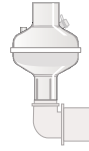
Filters

Bacterial Viral Filters

- Dedicated to the quality, committed to enhancing patient care
- Altera 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
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	30 L/min 4.3 mm H ₂ O	30 L/min 5 mm H ₂ O
	60 L/min 11.6 mm H ₂ O	60 L/min 12 mm H ₂ O	60 L/min 14 mm H ₂ O
	90 L/min 24.6 mm H ₂ O	90 L/min 25 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



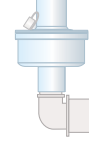
	BACTERIAL-VIRAL FILTER Angled	BACTERIAL-VIRAL FILTER Angled	BACTERIAL-VIRAL FILTER Angled
	SBC raw material	SBC raw material	PP raw material
Code	AL-08002/1	AL-08018/1	AL-08023/1
Sterile Code	AL-080029/1	AL-080189/1	AL-080239/1
Qty/Box	45	45	45
Tidal volume (ml)	150-1500	150-1500	150-1500
Dead Space (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	30 L/min 4.5 mm H ₂ O	30 L/min 5.5 mm H ₂ O
	60 L/min 12 mm H ₂ O	60 L/min 12.5 mm H ₂ O	60 L/min 14.5 mm H ₂ O
	90 L/min 25 mm H ₂ O	90 L/min 25.5 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 %99,999
- 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)
- 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
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	30 L/min 9.4 mm H ₂ O	30 L/min 6 mm H ₂ O
	60 L/min 19.9 mm H ₂ O	60 L/min 23.2 mm H ₂ O	60 L/min 16.5 mm H ₂ O
	90 L/min 38.2 mm H ₂ O	90 L/min 42 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	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 mm H ₂ O	30 L/min 3.5 mm H ₂ O	30 L/min 6.5 mm H ₂ O
	60 L/min 17 mm H ₂ O	60 L/min 23.5 mm H ₂ O	60 L/min 17 mm H ₂ O
	90 L/min 32 mm H ₂ O	90 L/min 42.5 mm H ₂ O	90 L/min 32.5 mm H 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	PP raw material	BACTERIAL-VIRAL/HME Filter with foam HME
Sterile Code	AL-08022	AL-080219
Qty/Box	AL-080229	50
Tidal volume (ml)	150-1500	150-1500
Dead Space (ml)	55	55
Bacterial-Viral Efficiency	>99.9999%	>99.9999%
Viral Efficiency	>99.9999%	>99.9999%
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 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	28.5
Fittings	22mmM - 15/22mmMF	22mmM - 15/22mmMF
Humidification efficiency	37 mg H ₂ O/L (@600 ml tid, vol.)	35.5 mg H ₂ O/L (@600 ml tid, vol.)



BACTERIAL-VIRAL/HME Filter Angled with paper

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

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



BACTERIAL VIRAL HME FILTER PEDIATRIC

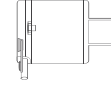


BACTERIAL VIRAL HME FILTER NEONATAL

BACTERIAL VIRAL HME FILTERS

PEDIATRIC & NEONATAL FILTERS

Tracheostomy HME



Tracheostomy HME

Code	SBC raw material	Tracheostomy HME	Tracheostomy HME with Oxygen Tubing
Sterile Code	AL-08025	AL-08025	AL-08026
Qty/Box	AL-080259	100	AL-080269
Moisture exchange surf.	500 cm ²	500 cm ²	500 cm ²
Dead Space (ml)	15	15	15
Humidification efficiency	1hr: 27.5mgH ₂ O/L 24hr: 28.8mgH ₂ O/L	1hr: 27.5mgH ₂ O/L 24hr: 28.8mgH ₂ O/L	1hr: 27.5mgH ₂ O/L 24hr: 28.8mgH ₂ O/L
Resistance to Flow initial	0.63 cmH ₂ O (30L/min) 1.8 cmH ₂ O (60 L/min) 3.5 cmH ₂ O (90 L/min)	0.63 cmH ₂ O (30L/min) 1.8 cmH ₂ O (60 L/min) 3.5 cmH ₂ O (90 L/min)	0.63 cmH ₂ O (30L/min) 1.8 cmH ₂ O (60 L/min) 3.5 cmH ₂ O (90 L/min)
Weight (gr)	8.4	8.4	10
Connections	15F, oxygen port: 5.5mm, suctioning port: 6.1mm	15F, oxygen port: 5.5mm, suctioning port: 6.1mm	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