

COVID-19 Bulletin: 6.09.20

Product List

M1182629, D-fend[™] Pro Water Trap, Multi-Patient Disposable M1200227, D-fend[™] Pro+ Water Trap, Single-Patient-Use Disposable 8002174, Mini D-fend[™] Water Trap, Disposable 876446-HEL, D-fend[™], Black Water Trap, Multi-Patient Disposable 881319-HEL, D-fend[™]+, Green Water Trap, Single-Patient-Use Disposable

Water Trap Filtration

GE Healthcare Water Traps for Gas Monitoring Modules

Disclaimers

• The D-fend Pro(+), Mini D-fend and D-fend(+) water traps inhibit bacteria, viruses, water and mucus from entering the respiratory measurement system. An independent third-party lab has tested for viral filtration efficacy (VFE) against a surrogate infectious material known as Phi X 174, one of the smallest viruses available for testing. No effectiveness testing has been performed for recent viruses like COVID-19 (or SARS) with any of the water traps listed.

- Use the water trap according to instructions provided with the water trap.
- For heightened precaution with patients suspected or confirmed COVID-19 infection, the water traps may be replaced more frequently than indicated on the instructions for use.

Table 1. D-fend Pro Water Trap, Multi-Use and D-fend Pro+ Water Trap, Single-Use	
Bacterial Filtration Efficiencies	> 99.999970%
Viral Filtration Efficiencies	> 99.9988%
Tidal Volume range	Water traps are positioned at end of the side stream gas sampling line. Sampling rate is 120 mL/ min, tidal volume from 5 mL to 2000 mL depending on airway adapter. Please note that the filtration efficiency is not dependent on the tidal volume.
Internal Volume	Container volume is > 5.5 mL
Moisture output	Water vapor will pass through the filter, water condensate does not
Resistance	A clean and unused water trap with 105 mL/ min air flow resistance is between 22 and 52 mbar
Filter type	PTFE oleophobic membrane, 0.2 micro membrane on polyester backer

There are application-specific water traps for Anesthesia and Critical Care. The M1182629 D-fend Pro Water Trap is intended for multiple patients in an operating room environment, whereas the M1200227 D-fend Pro+ Water Trap is for single-patient-use in an intensive care environment.



Table 2. Mini D-fend Water Trap	
Bacterial Filtration Efficiencies	>99.99998%
Viral Filtration Efficiencies	>99.99997%
Tidal Volume range	Not applicable. Water traps are positioned at end of the side stream gas sampling line. Sampling rate is 150 mL / min. Tidal volume is not measured by the associated gas module (E-miniC). Please note that the filtration efficiency is not dependent on the tidal volume.
Internal Volume	Container volume is > 5.5 mL
Moisture output	Water vapor will pass through the filter, water condensate does not
Resistance	The maximum flow resistance over the water trap for the Mini D-fend is 25mbar at 200 mL / min.
Filter type	Gore [™] Medical Membrane, a 0.2 micrometer membrane on nonwoven polyethylene/polypropylene



Table 3. D-fend, Black, Multi-Use and D-fend+, Green, Single-Use		
Bacterial Filtration Efficiencies	>99.99998%	
Viral Filtration Efficiencies	>99.99997%	
Tidal Volume range	Water traps are positioned at end of the side stream gas sampling line. Sampling rate is 200 mL / min. Tidal volume range is from 15 mL to 2000 mL depending on the airway adapter. Please note that the filtration efficiency is not dependent on the tidal volume.	
Internal Volume	Container volume is > 5.5 mL	
Moisture output	Water vapor will pass through the filter, water condensate does not	
Resistance	The maximum flow resistance over the water trap is 20 mbar at 200mL / min	
Filter type	Gore [™] Medical Membrane, a 0.2 micrometer membrane on nonwoven polyethylene/polypropylene	

There are application-specific water traps for Anesthesia and Critical Care. The 876446-HEL D-fend Water Trap is intended for multiple patients in an operating room environment, whereas the 881319-HEL D-fend+ Water Trap is for single-patient-use in an intensive care environment.

To ensure maximum patient and clinician safety, please adhere to the following guidelines:

- Use a reliable bacterial/viral filter at the patient circuit Y-piece. Follow filter guidelines for appropriate replacement frequency.
- Gas sampled by the module should directed to a scavenging system.

Additional Information

- Visit www.apsf.org for information regarding:
 - Recommendations for Airway Management in a Patient with Suspected Coronavirus (2019-nCoV)
 - FAQ on Anesthesia Machine Use, Protection and Decontamination During the COVID-19 Pandemic
- CARESCAPE Respiratory Modules User's Manual
- Instructions For Use:
 - <u>D-fend™ Pro Water Trap, Multi-Patient Disposable</u>
 - <u>D-fend[™] Pro+ Water Trap, Single-Patient-Use Disposable</u>
 - <u>Mini D-fend™ Water Trap</u>, <u>Disposable</u>
 - <u>D-fend™, Black, Multi-Patient Disposable</u>
 - <u>D-fend™+, Green, Single-Patient-Use Disposable</u>
- Technical Specifications:
 - CARESCAPE Respiratory Modules specifications
 - Compact Airway Modules specifications
 - E-miniC specifications
- D-Fend Pro white paper
- Monitoring solutions SA for Respiratory catalog

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