



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 , Single-Patient -Use 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

- No effectiveness testing has been performed for recent viruses like COVID-19 (or SARS) with any of the water traps listed here.
- Use the water trap according to instructions provided with the filter.
- GE Healthcare recommends replacing water traps after exposure to any patients with suspected or confirmed COVID-19 infection in order to minimize the possibility of patient cross-contamination.



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 mg/H2o/l at Vt 500ml:	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
Moisture Output (mg H2o/L):	Water vapor will pass through the filter, water condensate does not
Moisture Output (mg H2o/L):	Water vapor will pass through the filter, water condensate does not

The M1182629 D-fend Pro Water Trap is intended for multiple patients, where as the M1200227 D-fend Pro+ Water Trap is for single-patient-use.

The green-colored M1200227, D-fend Pro+ Water Trap, can be used in an Operating Room environment, however please note the change time per the instructions for use, dictate max 24-hour usage and must be changed after every patient.

Water traps provide protection for the respiratory module.

The PTFE membrane of the D-fend Pro and D-fend Pro+ water traps inhibits bacteria, viruses, water and mucus from entering the respiratory measurement system.

Filter type: PTFE oleophobic membrane, 0.2 micrometer membrane on polyester backer.

The D-Fend Pro water traps were developed to protect the gas analysis system from moisture and contaminants, and to enable seamless operation of CARESCAPE respiratory modules.

There are application-specific water traps for Anesthesia and Critical Care.



Table 2. Mini D-fend Water Trap, Single-Use

Bacterial Filtration Efficiencies	>99.99998%
Viral Filtration Efficiencies	>99.99997%
Tidal Volume range	<p>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).</p> <p>Please note that the filtration efficiency is not dependent on the tidal volume.</p>
Internal Volume	Container volume is > 5.5 mL
Moisture output mg/H2o/l at Vt 500ml:	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.
Moisture Output (mg H2o/L):	Water vapor will pass through the filter, water condensate does not
Moisture Output (mg H2o/L):	Water vapor will pass through the filter, water condensate does not

The GORE-TEX membrane of the Mini D-fend water trap inhibits bacteria, viruses, water and mucus from entering the respiratory measurement system.

Filter type: GORE™ Medical Membrane, 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	<p>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.</p> <p>Please note that the filtration efficiency is not dependent on the tidal volume.</p>
Internal Volume	Container volume is > 5.5 mL
Moisture output mg/H2o/l at Vt 500ml:	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
Moisture Output (mg H2o/L):	Water vapor will pass through the filter, water condensate does not
Moisture Output (mg H2o/L):	Water vapor will pass through the filter, water condensate does not

The GORE-TEX membrane of the Mini D-Fend water trap inhibits bacteria, viruses, water and mucus from entering the respiratory measurement system.

Filter type: GORE™ Medical Membrane, 0.2 micrometer membrane on nonwoven polyethylene/polypropylene

Additional Information

- Visit www.apsf.org for information regarding:
 - Recommendations for Airway Management in a Patient with Suspected Coronavirus (2019-nCoV) Infection
 - FAQ on Anesthesia Machine Use, Protection and Decontamination During the COVID-19 Pandemic
- CARESCAPE Respiratory Modules User's Manual
- Instructions For Use:
 - D-fend™ Pro Water Trap, Multi-Patient Disposable
 - D-fend™ Pro+ Water Trap, Single-Patient-Use Disposable
 - Mini D-fend™ Water Trap , Single-Patient -Use Disposable
 - D-fend™, Black, Multi-Patient Disposable
 - D-fend™+, Green, Single-Patient-Use Disposable
- 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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Imagination at work

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