COVID-19 Bulletin: 3.23.20

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 , 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**

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	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 mg/H2o/I 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

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	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 mg/H2o/I 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

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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