

Drägerwerk AG & Co. KGaA, 23542 Lübeck

To whom it may concern

Our reference

COVID-19 Filtration Efficiency of Dräger
HCA Filters

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April 8, 2020

Filtration Efficiency of Dräger Filters for Breathing Systems and Suction Devices

Dear Dräger Customer,

We confirm the following retention rates for filtration efficiencies:

	Bacterial retention*	Viral retention**	NaCl retention***
CareStar® 45 (MP01755)	≥ 99.9999%	≥ 99.9999%	≥ 98.5%
CareStar® 40A (MP01765)	≥ 99.9999%	≥ 99.9999%	≥ 98.1%
CareStar® 30 (MP01770)	≥ 99.99%	≥ 99.99%	≥ 95.3%
SafeStar® 80 (MP01785)	≥ 99.9999%	≥ 99.9999%	≥ 99.99%
SafeStar® 55 (MP01790)	≥ 99.9999%	≥ 99.9999%	≥ 99.97%
SafeStar® 60A (MP01795)	≥ 99.9999%	≥ 99.9999%	≥ 99.98%
TwinStar® 90 (MP01800)	≥ 99.999%	≥ 99.999%	≥ 97.8%
TwinStar® HEPA**** (MP01801)	≥ 99.999%	≥ 99.9999%	≥ 99.8%
TwinStar® 55 (MP01805)	≥ 99.999%	≥ 99.99%	≥ 95.1%
TwinStar® 65A (MP01810)	≥ 99.999%	≥ 99.99%	≥ 97.3%
TwinStar® 25 (MP01815)	≥ 99.999%	≥ 99.99%	≥ 98.0%
TwinStar® 8 (MP01820)	≥ 99.9%	≥ 99.9%	≥ 79.1%
TwinStar® 10A (MP01825)	≥ 99.9%	≥ 99.9%	≥ 79.1%
Infinity ID Expiratory Filter**** (MP01780)	≥ 99.9999%	≥ 99.9999%	-
Expiratory Filter**** (MP01781)	≥ 99.9999%	≥ 99.9999%	-
Bacterial Filter for Suction Devices (MK00514)	≥ 99.999%	≥ 99.999%	-

- * BFE According to Nelson Laboratories, Inc. Salt Lake City, USA. The mean particle size (MPS) of the challenge aerosol must be maintained at $3.0 \pm 0.3 \mu\text{m}$. The average percent bacterial filtration efficiency (%BFE) for the reference material must be within the upper and lower control limits established for the BFE test.
- ** VFE According to Nelson Laboratories, Inc. Salt Lake City, USA. The mean particle size (MPS) of the challenge aerosol must be maintained at $3.0 \pm 0.3 \mu\text{m}$. The average percent virus filtration efficiency (%VFE) for the reference material must be within the upper and lower control limits established for the VFE test.
- *** NaCl According to Nelson Laboratories, Inc. Salt Lake City, USA. The filter tester produces a particle size distribution with a count median diameter of $0.075 \pm 0.02 \mu\text{m}$ and a standard geometric deviation not exceeding $1.86 \mu\text{m}$ as determined with a scanning mobility particle sizer (SMPS). Vario Safe® Filter for Suction Devices (MP00555) has been tested similar to Nelson Laboratories at Dräger Safety AG & Co. KGaA, Lübeck, Germany.
- **** HEPA These filters fulfill the requirements from filter class H13 or better according to DIN EN 1822-1:1998 and / or DIN EN 1822-1:2011. Our SafeStar® filters are designed with the same filtration medium as our TwinStar® HEPA.

We kindly ask you to take this information into consideration and follow the respective Instructions for Use.

If you have any further questions or need any support, please contact Dräger's local service support or sales representative.

Kind Regards,



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