

March 5, 2020

To: All Ambu and King Systems Customers

Re: Viral Efficiency of Ambu and King Systems Filters

In light of growing domestic and global concerns related to transmission of Coronavirus COVID-19, the question of the protection afforded by our breathing circuit filters has arisen. CDC article "What Healthcare Personnel Should Know about Caring for Patients with Confirmed or Possible COVID-19 Infection" has indicated that based on what is currently known about COVID-19 and what is known about other coronaviruses, the spread is thought to occur mostly from person-to-person via respiratory air-borne droplets among close contacts. This is the same mechanism as other viruses, so the protection provided by our breathing circuit filters would be expected to be the same.

Link to full article: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/caring-for-patients.html>

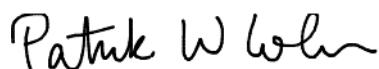
King Systems has performed both Bacterial Filtration Efficiency (BFE) and Viral Filtration Efficiency (VFE) testing on its filter products which are deemed to be the best indicators of the filters ability to perform its intended function, which is to prevent transference of virus and bacteria through a breathing circuit. The testing is done by an independent lab at an increased challenge level to what is expected during normal use. Specifically, the VFE testing is done with a very small challenge organism, which is similar in relative size to typical strains of influenza (approximately 0.0274 microns), that is contained in an aerosolized droplet.

Following is a guide to King Systems Filter Viral Efficiency Levels (VFE)

<u>Filter</u>	<u>Viral Efficiency Level (VFE)</u>
VII (20801)	≥ 99.99% - can be added to any circuit or device with 15/22mm connections
F2, Flex2	≥ 99.99% - provides separate filtration of both expiratory and inspiratory flow
HME/F's	≥ 99.99% - can be added to any circuit or device with 15/22mm connections

We currently have no supply issues and will do all we can to provide all our customers with products in a timely fashion.

If you have questions, please feel free to contact me at 317-776-3140 or email me at paco@ambu.com



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