

# MADA

*Spirometry Filters*

Milan, 18.02.2020

TO ALL OUR CUSTOMERS

## **New Flu - Coronavirus** (2019 - 2020)

In order to answer to the several information requests recently received about the Filtration Efficiency related to our Spirometry Filters' membrane, and therefore on its effectiveness in filtering out the new Coronavirus "cross-contamination" risks, we'd like to withdraw your attention on the following topics:

MADA Filters, have been tested with MS-2 Virus, (which has a size of **0.02 microns**), at a flow rate of **750** liters/minute for a "continued time" of 5 minutes.

Accordingly we've obtained a Filtration Efficiency test result of **99.94%**. (tested: HPA PD CAMR Porton Down U.K).

The new Coronavirus has a variable size ranging from **0.08 to 0.16 micron** (like most of the viruses the cause the flu).

It means that the Coronavirus size is from **4** to **8** times bigger than the "testing" virus size we used (MS-2).

Assumed what above stated, we can mention that our filters are in the condition to mitigate, (more than the indicated result of 99,94%), any possible risk of "cross-contamination" due to the new Coronavirus (patient → device/spirometer → next patient ... and environment)

Laboratory Tests are available to be consulted upon request.

Best regards,

MADA *Spirometry Filters srl*

Luigi D'Alò

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|---------------------------------|-------------------|
| • 2002 Flu Epidemic SARS        | from China        |
| • 2009 Flu Epidemic A H1N1      | from Mexico       |
| • 2012 Flu Epidemic MERS        | from Saudi Arabia |
| • 2019 Flu Epidemic CORONAVIRUS | from China        |

(1 micron = 1/1000 of millimeter)