FEDERAL SERVICE FOR SURVEILLANCE ON CONSUMER RIGHTS PROTECTION AND HUMAN WELLBEING
FEDERAL BUDGET INSTITUTION OF SCIENCE
CENTRAL RESEARCH INSTITUTE OF EPIDEMIOLOGY
(Rospotrebnadzor FBIS CRIE)
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Moscow

September 18, 2020 No. 77-51-100/19-3191-2020

Attn: O.V. Belobrovtseva
General Director of Potok Inter SPC

Dear Ms Belobrovtseva,

In response to your Letter No. 252-09/20 of September 14, 2020, the Rospotrebnadzor Central Research Institute of Epidemiology (hereinafter, the Institute) herewith provides its feedback on the practical use of UOV Potok-150-M-01 air decontamination units in order to minimize the risk for the Institute's employees to be infected with a new coronavirus.

Appendix: Feedback, 1 sheet

Sincerely,

Director of the Institute */Signature/* V.G. Akimkin

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FEEDBACK

On the practical use of UOV Potok-150-M-01 air decontamination and fine filtration autonomous systems in the premises of the Rospotrebnadzor Central Research Institute of Epidemiology in the context of COVID-19 spread

The Rospotrebnadzor Central Research Institute of Epidemiology (hereinafter, the Institute) was among the first in Russia to get in gear for the development and practical implementation of measures to counter the further spread of the COVID-19 pandemic. Arranging for patient biomaterial sampling at the Institute's Center for Molecular Diagnostics (CMD) for further PCR detection of the new SARS-CoV-2 coronavirus was one of the focuses.

In order to minimize the risk for the CMD's employees to be infected with the new coronavirus, the Institute equipped the laboratory with the Russian-made air decontamination and fine filtration autonomous systems as follows: 4 systems of Series 5 UOV Potok-150-M-01 with a capacity of 1,000 m^3/h and 12 systems of Series UOV Potok-150-M-01 with a capacity of 130 m^3/h made by Potok Inter and designed for laboratory air decontamination in the presence of humans.

Choosing these systems as part of comprehensive decontamination measures was due to the fact that the secondary and tertiary structure of nucleic acid molecules (DNA, RNA) of any microorganisms was completely destructed when exposed to the powerful alternating electric field the systems radiate, which is an absolute must in the context of the new coronavirus pandemic. The essential thing is that neither periodic massive releases of microorganisms into the room nor any loss in efficiency with increasing air humidity have been observed, which ensures that the equipment is safe for humans when run in the continuous and intermittent modes in highly humid and dusty environments.

To prevent viral pathogens, including COVID-19, from circulating in the premises, the Institute's CMD decontaminates the air in several (15) laboratory premises with a total area of over 2,000 m^2 (20 m^2 to 850 m^2) and more than 200 employees per shift using UOV Potok-150-M-01 decontamination and fine filtration systems. Over the entire period of using the systems, the Center's work has been practically continuous, with no cases of infection and forced self-isolation registered among the working staff.

Given the above, we recommend to use UOV Potok-150-M-01 air decontamination and fine filtration autonomous systems in laboratories that specialize in diagnosing coronavirus pathogens.

Head of the Rospotrebnadzor CRIE Laboratory for Infections Associated with Medical Care Provision;
Corresponding Member, Russian Academy of Sciences */Signature/* A.V. Tutelyan