

Daikin Flash Streamer Decomposes 100% of H1N1 Flu Virus

Daikin, in collaboration with Dr. Le Thi Quynh Mai of the Vietnamese National Institute of Hygiene and Epidemiology (NIHE), has demonstrated for the first time in the world that its unique Flash Streamer technology with powerful oxidative action is able to decompose and remove in 4 hours 100% of the new type A H1N1 influenza virus currently raging around the world.

The research results demonstrated that Flash Streamer technology oxidizes proteins on the surface of the H1N1 flu virus, making the virus lose its infectious ability.

An epidemic of the new flu virus continues to run unabated through Japan, with the number of infected continuing to rise. In May of this year, Daikin's Flash Streamer technology was shown to decompose and remove 100% of the virulent H5N1 avian flu virus, and has also been proven to deactivate strains of the seasonal flu, noro-viruses, toxins and bacteria that cause food poisoning, as well as formaldehyde and other harmful substances. Flash Streamer technology holds promise as one line of defense against viral and other infections that threaten health.

Test demonstration results

1: Test methods

Using cytopathic effect (CPE), a testing method common in virus epidemiology, H1N1 flu virus irradiated by the Flash Streamer was injected in MDCK cells, which were then cultured for 7 days, after which virus survival was observed.

2: Test results

Cells injected with the H1N1 virus, when not exposed to Flash Streamer irradiation, were completely destroyed by the virus. However, cells injected with virus that was irradiated for 4 hours with the Flash Streamer survived and were healthy, confirming that 100% of the H1N1 flu virus had been decomposed and removed.