

% of VIRUS CONTROLLED BASED ON TECHNOLOGY

MERV Rating	Filter Only	Filter + UVX***	Filter + Ionization *, **
6	6.2%	10%	34%
7	7%	12%	61%
8	11%	19%	84%
10	12%	35%	89%
13	46%	84%	97%
15	71%	97%	99%
16	76%	98.80%	99.90%
17 (HEPA)	99.9%	99.99%	99.99%

* Ionization increases the filter efficiency 4-5 MERV levels

** Does not take into account ionization kills in the space and on surfaces

*** UVC does not effectively kill airborne pathogens in high RH conditions²

ASHRAE Technical Paper on Airborne Infectious Diseases

<https://www.ashrae.org/File%20Library/About/Position%20Documents/Airborne-Infectious-Diseases.pdf>

Swine H1NI Influenza A: Transmission of Viruses in Indoor Air: HVAC System Protection Options

<https://elib.tips/edoc/swine-h1ni-influenza-a.html>

GPS added the third column to demonstrate estimated efficacy due to particle agglomeration as tested by Blue Heaven Labs and the National Research Council of Canada on GPS' NPBI technology.