

# Air-Q Data Sheet



Ultraviolet germicidal irradiation (UVGI) is a disinfection method that uses short-wavelength ultraviolet (ultraviolet C or UV-C) light to kill or inactivate microorganisms by destroying nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions.[1] UVGI is used in a variety of applications, such as food, air, and water purification.

Bug Type	Required Level UVC Energy for Kill (in mJ)	Source	Air-Q 1000 - Kill Rate
Coronavirus	0.7	Walker 2007	100.0%
Berne virus (Coronavirade)	0.7	Weiss 1986	100.0%
Murine Coronavirus (MHV)	1.5	Hirano 1978	100.0%
Canine Coronavirus (CCV)	2.9	Saknimit 1988	100.0%
Murine Coronavirus (MHV)	2.9	Saknimit 1988	100.0%
SARS Coronavirus CoV-P9	4	Duan 2003	100.0%
Murine Coronavirus (MHV)	10.3	Liu 2003	98.7%
SARS Coronavirus (Hanoi)	13.4	Kariwa 2004	96.4%
SARS Coronavirus (Urbani)	24.1	Darnell 2004	84.3%
<b>Average</b>	<b>6.7</b>		<b>99.9%</b>

The Air-Q system is designed for ultimate performance in a quiet unobtrusive package, killing on average 99.9% of known Coronavirus species.

