

Smart IoT Ventilating Pipe Disinfection Device

UV-C VentGuard

Inhibits transmission of virus through ventilating pipes
Creates a safer and healthier environment



Powerful Pathogen Inactivation

With UV-C VentGuard (VG) installed to the above-roof portion of the ventilating pipe, air emerging from the pipe will be disinfected and have pathogens inactivated. VG ensures a safer and healthier environment for urban residents.

Pathogens: Coronavirus, Influenzas, E. coli

Kills in seconds

24/7

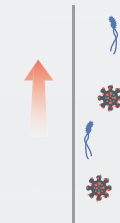
99+ %
SARS-CoV-19 #

Non-stop
Protection

Test results of the Department of Biology,
Hong Kong Baptist University



Disinfection process



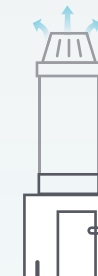
01

Pathogens carrying aerosol particles in the air rising up in the ventilating pipe



02

Pathogens passing through the zone in VG with high dose of ultra-violet C-band (UV-C) radiation energy will be rapidly and effectively inactivated



03

Air emerging from the ventilating pipe is now free of active pathogens



Features

Management by IoT Saves Time and Effort

IoT technology enables supervision of VG operation from remote office via cloud platform or mobile application



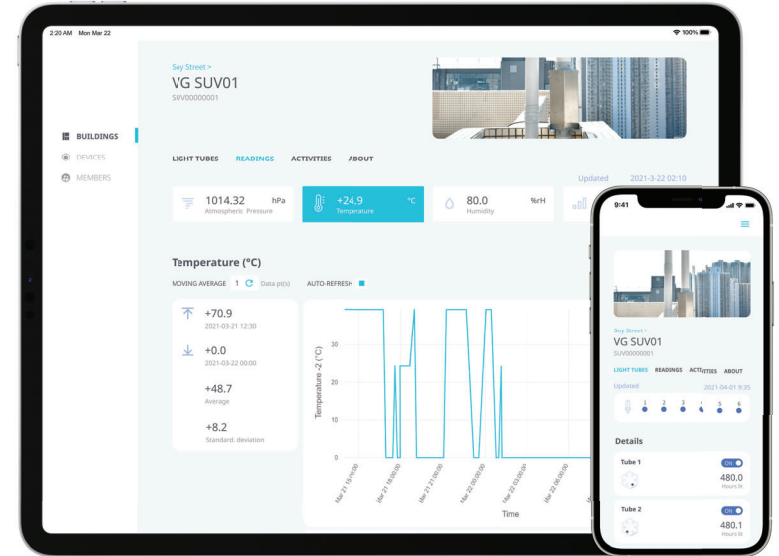
Environmental information



UV-C light control

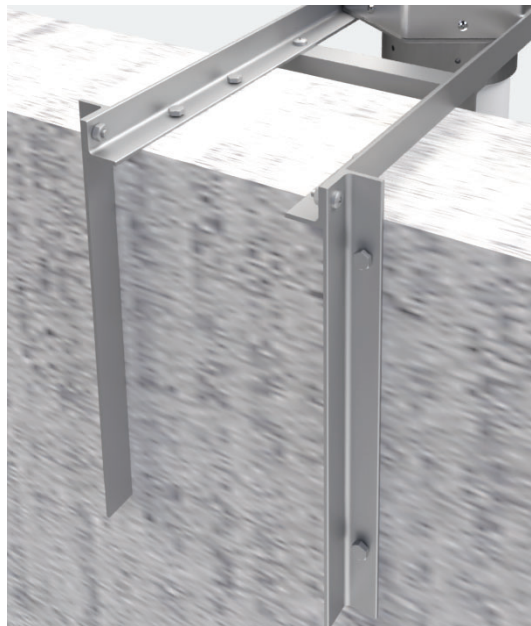


Maintenance/ service alert



VG is Built for All-weather Conditions

Simple and safe independent support structure



All metal enclosure body and exterior parts



Models to cover full range of ventilating pipe sizes



Why You Need UV-C VentGuard

Ventilating pipe is indispensable in providing anti-syphonage air pressure equalization effect in a plumbing system. Since sewage pipe and ventilating pipe are interconnected and exchanging air all the time, pathogens can cross over easily from sewage pipe to ventilating pipe. Pathogens in the air emerging from ventilating pipe may infect residents of the building or passerby people.

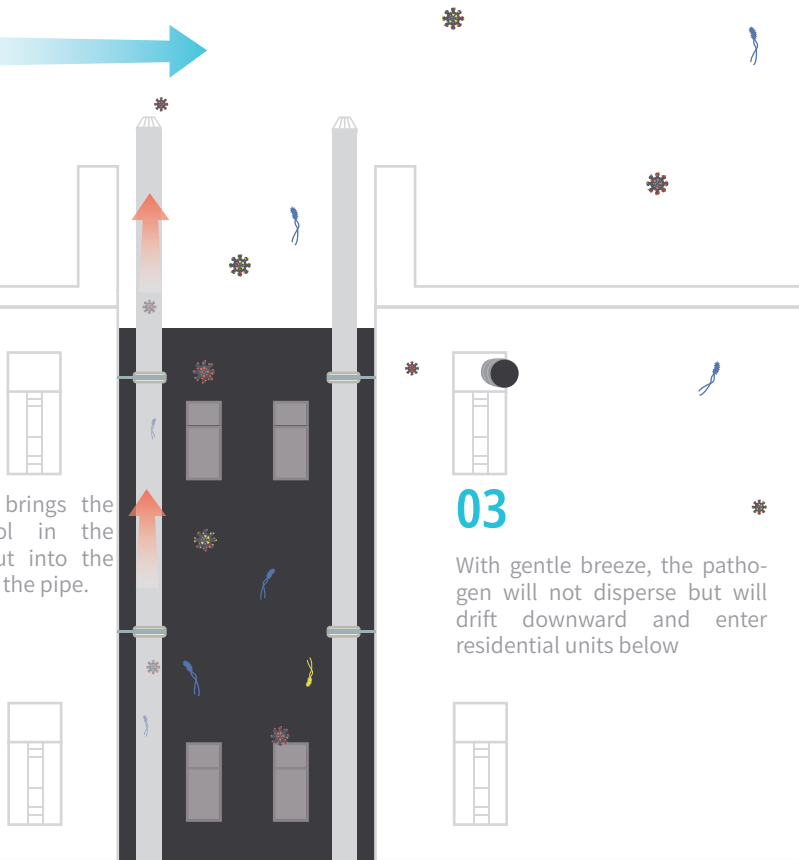
01

Breeze blowing across the roof and ventilating pipe generates a low pressure zone at the top of the pipe. The low pressure sucks air out from the ventilating pipe.



02

The emerging air brings the pathogenic aerosol in the ventilating pipe out into the surrounding area of the pipe.



03

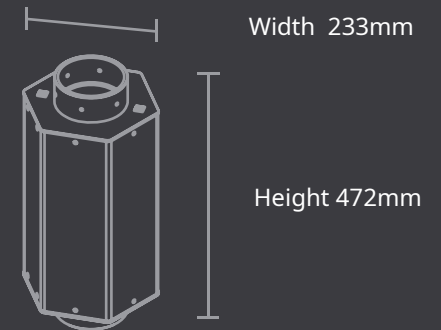
With gentle breeze, the pathogen will not disperse but will drift downward and enter residential units below.

Specifications

MODEL SVG - IPS - 110

Weight 7 KG

Dimensions



OPERATION

Voltage 24V

Outdoor operating temperature 10 - 60°C

Outdoor operating humidity 0 - 100%

Internal operating temperature 85°C

UV LIGHT TUBE 6 Tubes

Wavelength 254nm C

Power consumption 11W / Tube

Average lifespan 8,000 hours

Specification above is for DN100 ventilating pipe. For other sizes, please contact us directly.

LR One-stop Shop Service

- Provide installation support
- Full coverage maintenance package available



Development of VG was sponsored by Urban Renewal Authority.
Design and installation comply with Hong Kong Buildings Ordinance & Building Regulations. Site tests witnessed by representatives of Buildings Department.

Visit the VG website to get the latest information

www.uvcventguard.com

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