



99.995% reduction in airborne viruses proven to provide safer environments

Aether combines two proven and powerful methods of cleansing the air.

UV-C technology in a contained chamber pro-actively inactivates pathogens as the air passes through the fitting.

An in-built HEPA filter scrubs the air by filtering the inactivated viruses and particulate, pushing cleaner, safer air back into the environment.

The resulting air is cleansed of 99.995% of airborne pathogens such as COVID-19 and influenza. Cleaner air means safer spaces, and reduced impact from infection.





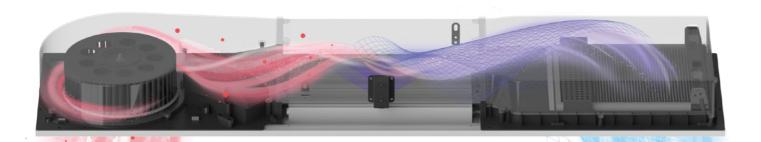
FOR ANY ENVIRONMENT WHERE SAFETY IS IMPORTANT.

Pierlite has developed the Aether fitting to protect communities and individuals in offices, hospitals, schools, waiting rooms and more.





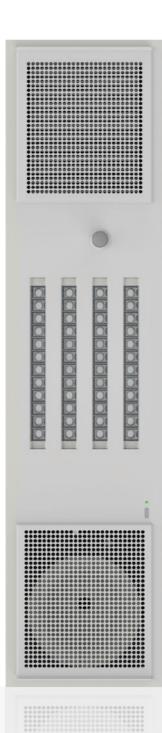
The air is circulated through the UVC LED chamber which inactivates bacteria and viruses.



Air inlet grill with filter screen and DC motor continuously pulls air from the environment into the fitting.

HEPA filter traps
airborne contaminants
and dusts, and
the cleansed air is
pushed back into the
environment.

A single pass of air through the Aether fitting inactivates 99.995% of virus particles.



- Patented air-purifying LED Troffer with HEPA filter and UV-C LED
- Concealed UVC LED air disinfection chamber integrated into a 1190mm x 290mm LED troffer with no direct UVC radiation exposure to the room environment
- Efficient low glare 4K troffer that drops seamlessly into existing lighting layouts
- Aesthetically pleasing design operates quietly
- H13 Medical Grade HEPA Filter with Germagic Technology.
- Standard recessed with optional surface mount, or suspended ceiling application.
- Remote control with status indicator light for site visibility of operation and maintenance
- Plug and Play Quick Fit to the existing 1200mm x 300mm ceiling cavity making ideal for retrofit or new construction.
- Optional IoT sensor integration
- Cyanosis compliant to AS/NZS1680.2.5 for general health care applications

CERTIFICATION AND VALIDATION

Standard	LAB	Testing	
AS/NZS IEC 60335-2-65	TÜV Rheinland	Household and similar electrical appliances - Safety, Part 2.65: Particular requirements for air-cleaning appliances	
AS/NZS 60598.2.2	TÜV Rheinland	Luminaires Particular requirements - Recessed luminaires	
AS/NZS CISPR 15	TÜV Rheinland	Limits and methods of measurement of radio disturbance characteristics of electrical light and similar equipment	
Virucidal Activity Test by UV Irradiation for Viosys LED	KR Biotech, Korea	COVID-19 (SARS-CoV-2) Cell Line E6 inactivation test	
Virucidal hard-surface efficacy test on Germagic HEPA filter	Microbac	COVID 19 Log reduction on HEPA Germagic Thyme	
Analysis of inactivation rates		Inactivation studies viruses (bacteriophages)	
of airborne microorganisms	Biotech Gmbh Lab, Germany	Reduction of bacterial spores	
using MS2 Surrogate Virus		Reduction of the total microbial count	
IEC 62471:2006	Steve Jenkins and Associates Australia NATA Accredited	UVC radiation leakage from the luminaire	
Safe Work Australia Standards	Steve Jenkins and Associates Australia NATA Accredited Ozone production		
AS/NZS14644.3	Air change rates validation Opira Pty Ltd Australia Airborne microbiological sampling		

INACTIVATION ANALYSIS OF PATHOGENS

AETHER UVC TROFFER WITH HEPA FILTER & COMPONENTS



Biotec GmbH lab in Germany conducted an independent study on airborne virus inactivation rates with the Aether UVC Air Purifier Troffer.

Inactivation virus studies (bacteriophages): Aether UVC Air Purifier Troffer inactivation rates were determined by using MS2 virus as a surrogate for airborne COVID-19. MS2 phages are non-enveloped, ssRNA-phages and a widely used surrogate for RNA viruses. The Coronavirus is an enveloped RNA virus with an ssRNA genome.

This Luminaire has been proven to inactivate 4.27 logs of viral load with an inactivation rate of 99.995%. It also reduces the spore load by more than 2.72 log levels and achieved an inactivation rate of >99.8%

Average Reduction of MS2 in the air with a single pass through the Aether Troffer air disinfection system.

НЕРА	UVC LED	Temperature (°C)	Relative Humidity (%)	Virus Concentration (PFU / m³)	Log Reduction	Inactivation Rate (%)
On	On	14.5	55.8	1.82 x 104	4.27	99.995

Reference: December 2021, Biotec GmbH Germany, Final report on the research project: Laboratory report titled "Inactivation analysis of airborne viruses"



The clinical validation and reduction of viral load in the air stream was performed by Good Laboratory Practice (GLP) accredited **Guangdong Detection Centre of Microbiology** in China using the TGA recommended Human Corona Virus HCoV-229E Host Cell Huh-7. The Troffer system was able to reduce the viral load of Log 3.66 reduction with an inactivation rate of >99.98%.

The reduction of total germs or Viral load in a defined test room (30 m3) with 2.2 x 10^6 TCID50/m3 (Tissue Culture Infectious Dose) reduce to $<2.4 \times 10^2 TCID50/m3$ at a removal rate of <99.98%

Reference: January 2022, Guangdong Detection Centre of Microbiology, China, Report Number 2021SP13349R01D, Aether UVC Troffer Report for Analysis.



Virucidal Activity Test by UV Irradiation was conducted by the **KR Biotech Co Ltd** Institute of Infectious Disease Control in Seoul Korea using the Seoul Viosys VSM+ UVC LED Chips.

The sterilization test using UV radiation from Vyosys VSM+ LED chips resulted in a 99.9999% virucidal inactivation against COVID-19 (SARS-CoV-2 Cell line Vero E6).

Reference: November 2020, KR Biotech Co. Ltd, Report Number KR-2011-065-SVS-02, Virucidal Activity Test by UVC Irradiation



Microbac Laboratories Inc, USA conducted a Hard Surface Efficacy test on HEPA filters. Tests against COVID-19 (SARS-CoV-2 Cell line Vero E6) showed a reduction of 3Log10 on the surface.

Reference: July 2020, Microbac Laboratories Inc, Report Number 1025-101, Virucidal Hard Surface Efficacy Test

HEPA FILTER



HEPA Type: Medical Grade H13 GERMAGIC™

Quality

H13 are within the highest tier of HEPA and are considered medical grade quality.

Function

HEPA H13 traps 99.95% of Maximum Penetration Size Particles (MPPS). HEPA filters capture with extraordinary efficiency of 0.1 micron.

· History & Testing

Experiments have shown that Medical Grade H13 HEPA filters can inactivate the most common influenza viruses.

UV-C LED





Seoul Violeds UV LED 254nm UV technology has been used.

These Violeds UV-C LED's are also used by NASA aboard the International Space Station (ISS) to provide a healthy, germ-free environment for astronauts.*

 ${\it *https://www.ledinside.com/news/2015/9/seoul_viosys_and_seti_partner_up_in_uv_led_decontamination_in_space}$

Product Code	Description
AETUVC12349D	Aether LED Troffer with UVC LED and HEPA filter
AETHEPA	Aether H13 Germagic HEPA filter
AETUVCLED	Aether UVC LED Module
AETUVCSUFKIT	Aether Surface Mount Kit
	Suspension Kit available on request

SPECIFICATIONS

Standard recessed and optional surface mount, or suspended ceiling configuration including safety rope for seismic restrain Powder coat white Aluminaire Construction Aluminium housing for luminaire and ABS for optics Supply Voltage/ Frequency Power Factor Power Factor Vo.9 Wattage (Lighting Load Only) 32W / 28W / 24W / 22W via NFC Luminous flux 3200lm / 2800lm / 2400lm / 2200lm via NFC Default Wattage & Luminous flux 3200lm / 2800lm Efficiency Liber Chip Samsung 2835 LED Driver (Lighting Load) Driver (Lighting Load) SEQUL CA3535 CUD7GF1B(U)275nm 11.5mW*2PCS CCT 4000K (other CCT available on request) CCT 4000K (other CCT available on request) Biffetime - UV-C Lifetime - UV-C Lifetime - HEPA Filter 6 months HEPA Type Medical Grade H13 GERMAGIC™ Temperature Range 40 ° C UGR 80 Baam Angle Filicker Filicker free Ccrtification Safety, EMC, UV Leakage, Ozone, UV Wavelength, UV Sterilise Motor DC Motor 21.5W @ 1010 Rotation Per Minute (RPM) Air Flow Sound level Maximum 50dB IP Remote Control UVC and Fan control Clean Air Delivery Rate Air treat-ment rate Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional loT sensor	Size	L1190 X W290 X H98.5	
ceiling configuration including safety rope for seismic restrain Powder coat white Luminaire Construction Aluminium housing for luminaire and ABS for optics Supply Voltage/ Frequency 200-240v 50/60Hz Power Factor >0.9 Wattage (Lighting Load Only) 32W / 28W / 24W / 22W via NFC Luminous flux 3200lm / 2800lm / 2200lm via NFC Default Wattage & Luminous flux 28W / 2800lm Efficiency 100lm/W LED Chip Samsung 2835 LED Driver (Lighting Load) Osram Intelligent NFC DALI 35/220-240/1A0 NFC SDCM 3 UVC Chip SEOUL CA3535 CUD7GF18(U)275nm 11.5mW*2PCS CCT 4000K (other CCT available on request) CCT 4000K (other CCT available on request) Lifetime (40°C) - Room Lighting Minimum 50.000 Hours L70 Lifetime - UV-C 15.000 hours Lifetime - HEPA Filter 6 months HEPA Type Medical Grade H13 GERMAGIC™ Temperature Range 40°C UGR 19 Beam Angle 80° Filicker Filicker free Certification Motor DC Motor 21.5W @ 1010 Rotation Per Minute (RPM) Air Flow 170m²/h Sound level Maximum 50dB IP Remote Control UVC and Fan control Clean Air Delivery Rate Air Exchange Rate Clean Air Delivery Room Size & Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional loT sensor	Weight	7.5kg	
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Temperature Range 40 ° C UGR 19 Beam Angle 80 ° Flicker Flicker free Certification Safety, EMC, UV Leakage, Ozone, UV Wavelength, UV Sterilise Motor DC Motor 21.5W @ 1010 Rotation Per Minute (RPM) Air Flow 170m³/h Sound level Maximum 50dB IP Remote Control UVC and Fan control Clean Air Delivery Rate 170m³/h or 100 CFM or 47.22l/sec Air Exchange Rate 8.55 Clean Air Delivery Room Size Room Size: L 5000 x W 3000 x H 2400 (mm) Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional IoT sensor	Lifetime - HEPA Filter	6 months	
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Sound level IP Remote Control UVC and Fan control Clean Air Delivery Rate Air Exchange Rate Clean Air Delivery Room Size Air treat-ment rate Controls Maximum 50dB UVC and Fan control 170m³/h or 100 CFM or 47.22l/sec 8.55 Room Size: L 5000 x W 3000 x H 2400 (mm) Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional IoT sensor	Motor	DC Motor 21.5W @ 1010 Rotation Per Minute (RPM)	
IP Remote Control Clean Air Delivery Rate Air Exchange Rate Clean Air Delivery Room Size Air treat-ment rate Controls UVC and Fan control 170m³/h or 100 CFM or 47.22l/sec 8.55 Room Size: L 5000 x W 3000 x H 2400 (mm) Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional IoT sensor	Air Flow	170m³/h	
Clean Air Delivery Rate Air Exchange Rate Clean Air Delivery Room Size Room Size: L 5000 x W 3000 x H 2400 (mm) Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional IoT sensor	Sound level	Maximum 50dB	
Air Exchange Rate Clean Air Delivery Room Size Room Size: L 5000 x W 3000 x H 2400 (mm) Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional IoT sensor	IP Remote Control	UVC and Fan control	
Clean Air Delivery Room Size & Air treat-ment rate Room Size: L 5000 x W 3000 x H 2400 (mm) Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional IoT sensor	Clean Air Delivery Rate	170m³/h or 100 CFM or 47.22l/sec	
& Air treat-ment rate Air treatment rate: Four times every hour when operated 24 x 7 operation. Controls Standard DALI Driver and optional IoT sensor	Air Exchange Rate	8.55	
· · · · · · · · · · · · · · · · · · ·	Clean Air Delivery Room Size & Air treat-ment rate	Air treatment rate: Four times every hour when operated 24 x 7	
COI (Cyanosis Observer Index) 1.713	Controls	Standard DALI Driver and optional IoT sensor	
	COI (Cyanosis Observer Index)	1.713	

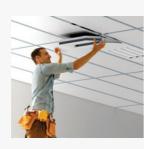
DESIGNED TO ENHANCE EVERYDAY LIVES

Engineered to fit into the space of a standard troffer, Aether is able to plug and play in most T-bar ceilings. Where that's not an option, Aether is also available as a surface or suspended fitting, ensuring every environment can benefit from its cleansing capabilities.

EASY TO INSTALL



1200 x 300, fits into a standard office ceiling.



Plug and play. Aether is fitted with a standard flex and plug.



Multiple mounting options.



Replacement filters available separately.







NEW SOUTH WALES

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Postal Address: PO BOX 314 Padstow NSW 2211

AUCKLAND

Phone: 0508 743 754 | Fax: 0508 743 755 686A Rosebank Rd, Avondale, AKL 1026

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Postal Address: PO Box 500 Fortitude Valley QLD 4006

VICTORIA / TASMANIA

Phone: 1300 799 300 | Fax: 1300 789 300 Unit 2, 20 Sabre Drive, Port Melbourne Vic 3207

SOUTH AUSTRALIA / NORTHERN TERRITORY

Phone: 1300 799 300 | Fax: 1300 789 300 Level 2, 191 Fullarton Rd, Dulwich SA 5065

WESTERN AUSTRALIA

Phone: 1300 799 300 | Fax: 1300 789 300 77 Truganina Road, Malaga WA 6090

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