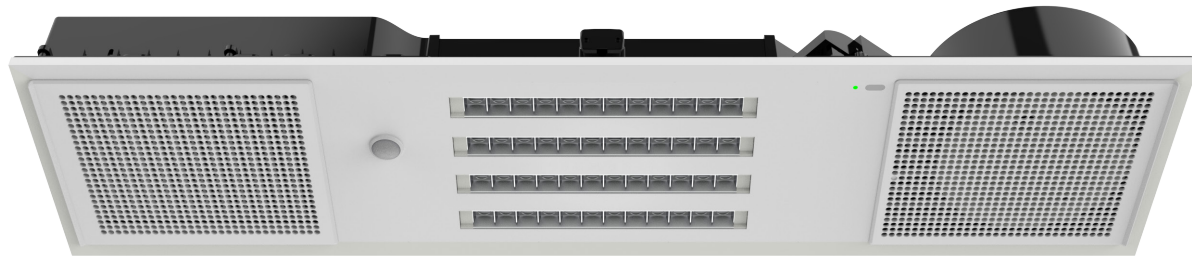




# AETHER LED TROFFER

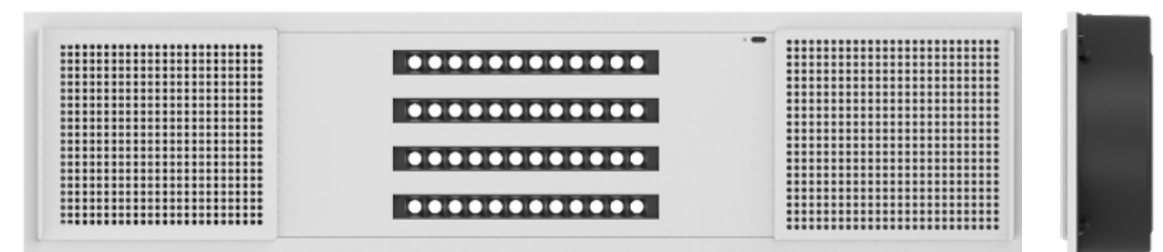
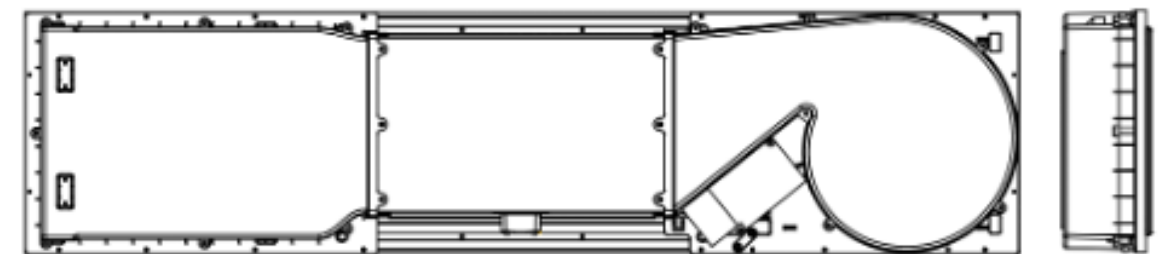
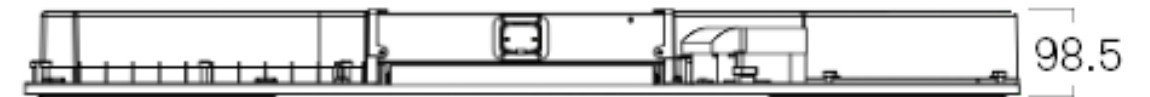
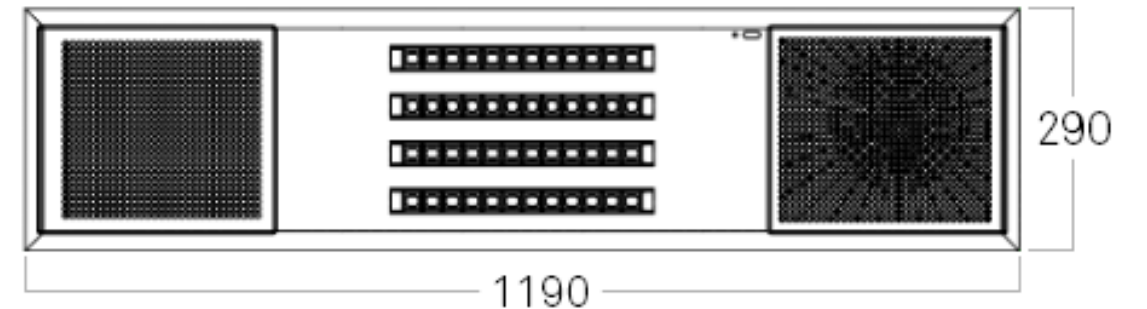
HEPA Filter with UV-C LED

# FEATURES

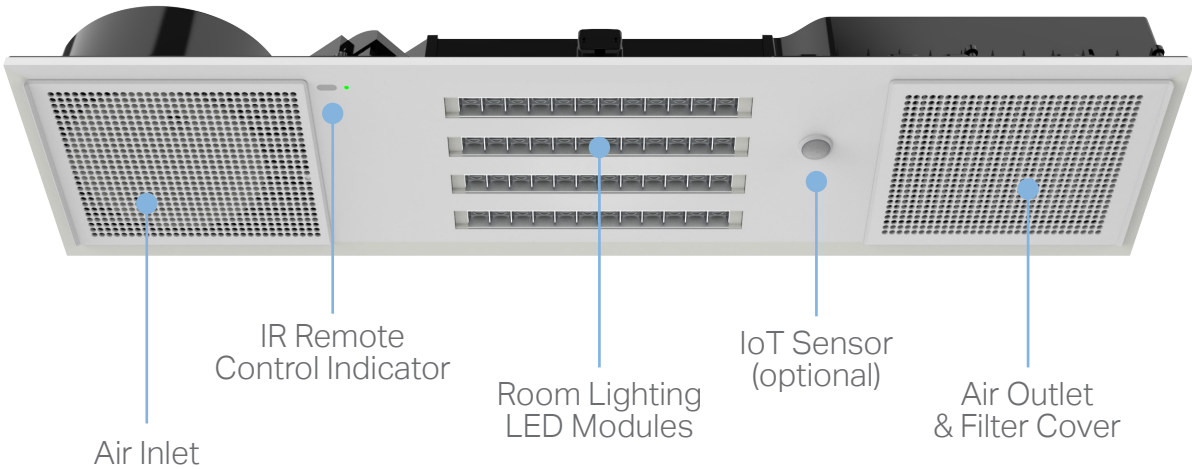


- Patented air-purifying LED Troffer with HEPA filter & UV-C LED
- Concealed UVC LED air disinfection chamber integrated into a 1190mm x 290mm LED troffer with no direct UVC radiation exposure to the room environment
- Efficient low glare 4K troffer that drops seamlessly into existing lighting layouts
- Architectural and elegant design operates quietly
- Design for 24 x 7 continuous operation
- Air is circulated through the UV-C LED air disinfection chamber which may inactivate bacteria and viruses by disrupting the DNA and RNA genetic material in the virus which prevents it from reproducing.
- H13 Medical Grade HEPA Filter with Germagic Technology.
- Standard recessed and 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

# LINE DRAWINGS



# TECHNOLOGY



## STEP 1

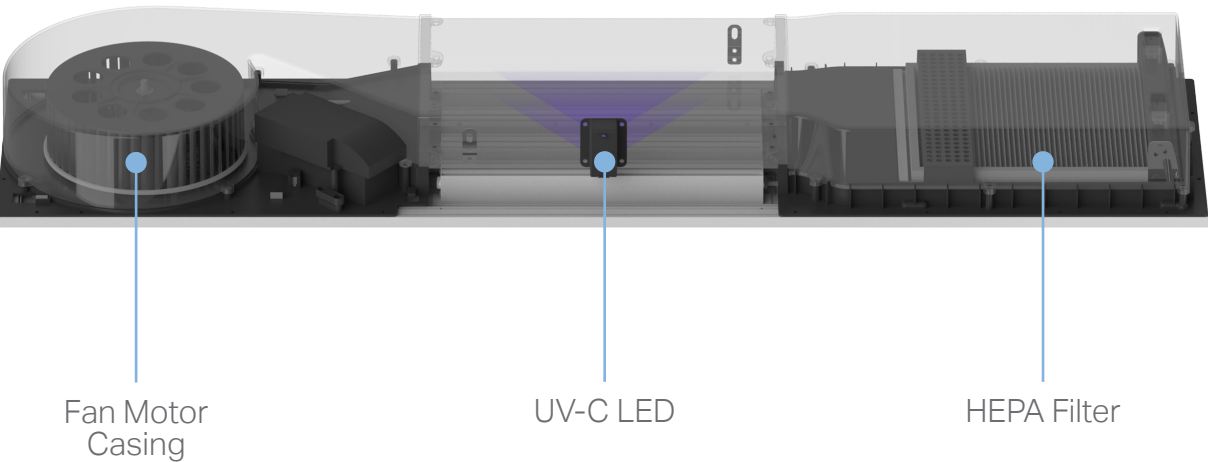
Air Inlet grill with filter screen and DC motor

## STEP 2

The air is circulated through the UVC LED Light which may inactivate bacteria and viruses

## STEP 3

HEPA filter traps airborne contaminants & dusts



# THIRD PARTY CLINICAL VALIDATION



The effectiveness of the inactivation rates of viruses and bacteria is currently getting tested by Biotech GmbH Lab, Germany.

# INFRARED REMOTE CONTROL FUNCTIONS



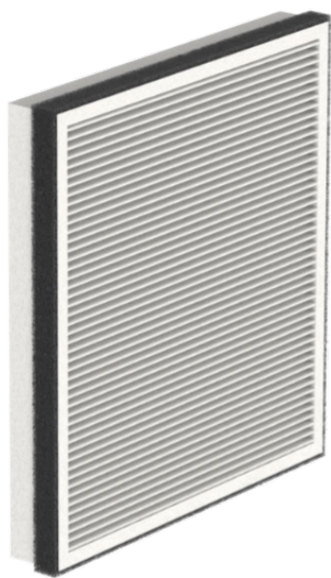
## REMOTE CONTROL LOGIC

Button	Colour	Function
Power Button - ON Status	Purple	FAN ON (Max Flow) & UVC LED ON
Power Button - OFF Status	No Indication	FAN OFF & UVC LED OFF
UVC Control - ON Status	Purple	UVC LED ON & Fan ON
UVC Control - OFF Status	Blue	UVC LED OFF & Fan ON

Notes: UVC can't work exclusively



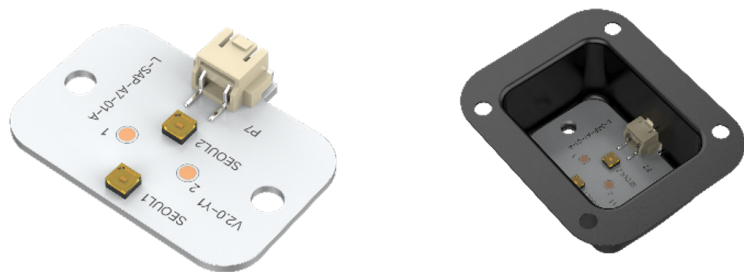
# HEPA FILTER



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: 0.01 micron. COVID-19 is approximately 0.125 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.

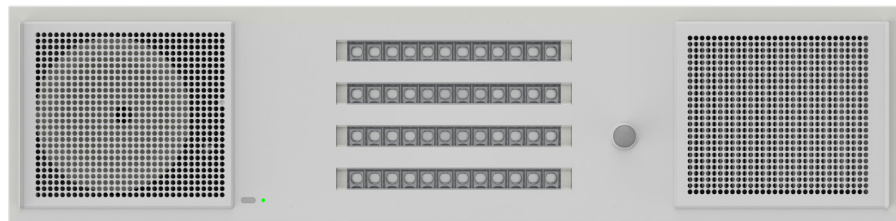
These Violeds UV-C LED's are also used by NASA aboard the International Space Station (ISS) to provide a healthy, germ-free environment for astronauts.\*

# SPECIFICATION

Size	L1190 X W290 X H98.5
Weight	7.5kg
Configuration	Standard recessed and optional surface mount, or suspended ceiling configuration including safety rope for seismic restrain
Finish	Powder coat white
Luminaire Construction	Aluminium housing for luminaire and ABS for optics
Supply Voltage/ Frequency	220-240v 50/60Hz
Power Factor	>0.9
Wattage (Lighting Load Only)	32W / 28W / 24W / 22W via NFC
Luminous flux	3200lm / 2800lm / 2400lm / 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 CUD7GF1B(U)275nm 11.5mW*2PCS
CCT	4000K
CRI	90
Lifetime (40°C) - Room Lighting	Minimum 50,000 HRS 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 degrees
Flicker	Flicker free
Certification	Safety, EMC, UV Leakage, Ozone, UV Wavelength, UV Sterilize, etc...
Motor	DC Motor 30W @ 1100 Rotation Per Minute (RPM)
Air Flow	170m³/h
Sound level	Maximum 50dB
IP Remote Control	UVC and Fan control
Clean Air Delivery Rate	Max CADR 170m³/h
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

\*[https://www.ledinside.com/news/2015/9/seoul\\_viosys\\_and\\_seti\\_partner\\_up\\_in\\_uv\\_led\\_decontamination\\_in\\_space](https://www.ledinside.com/news/2015/9/seoul_viosys_and_seti_partner_up_in_uv_led_decontamination_in_space)

# PRODUCT & ACCESSORY CODES



PRODUCT CODE	DESCRIPTION
AETUVC12349D	Aether LED Troffer with UVC LED and HEPA filter



ACCESSORY CODE	DESCRIPTION
AETHEPA	Aether H13 Germagic HEPA filter



ACCESSORY CODE	DESCRIPTION
AETUVCLED	Aether UV-C LED Module



ACCESSORY CODE	DESCRIPTION
AETUVCSUFKIT	Aether Surface Mount & Suspended kit

# CERTIFICATION & 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 IEC 60598*	TÜV Rheinland	Luminaires: General requirements and tests including Certificate of Suitability by JAS-ANZ Accreditation
AS/NZS CISPR 15	TÜV Rheinland	Electromagnetic Compatibility (EMC) & ACMA Declaration of con-formity
Virucidal Activity Test by UV Irradiation for Viosys LED	KR Biotech, Korea	COVID 19 (SARS-CoV-2) Cell Line E6 inactivation test
Analysis of inactivation rates of airborne micro-organisms*	Biotech Gmbh Lab, Germany	Inactivation studies viruses (bac-teriophages) Reduction of bacterial spores Reduction of the total microbial count
IEC62471 UV Radiation	Steve Jenkins & Associates Australia NATA Accredited	UVC Leakages
UVC LED wavelength test	Steve Jenkins & Associates Australia NATA Accredited	UVC LED Wavelength Confirmation
Safe Work Australia Standards	Steve Jenkins & Associates Australia NATA Accredited	Ozone production
AS 1807 AS/NZS14644*	Opira Pty Ltd Australia	HEPA filter integrity testing Air change rates validation Airborne microbiological sampling clean room & Associate controlled environments

\*Currently under testing

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# DISCLAIMER

Pierlite does not promise or warrant that the use of Aether UV-C Troffer will cure, mitigate, protect, or prevent any user from infection with any harmful micro-organisms, illness or disease. The Aether UV-C Troffer is an excluded good under item 12 of Schedule 1 of the Therapeutic Goods Australia (Excluded Goods) Determination 2018.

This product is not intended for disinfecting medical devices. To the greatest extent permitted by law, Pierlite is not responsible for any claim or damage that may arise from or relate to any use of the Aether UV-C Troffer outside of its intended use or contrary to their installation and operation instructions.

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# WARRANTY

- **5-year warranty** for UV device housing, mechanical, white light-emitting components, ballast, and driver or Maximum 50,000 hrs
- **3-year warranty** on UV device fans and other electrical components or Maximum 30,000 hrs
- **2-year warranty** on UV-C led or Maximum 15,000 hrs
- **6 months warranty** on HEPA filter