



EcoLink

Air Purifier With UV-C Technology

India | 15 Sept 2021

What are bacteria and virus and why are they harmful?

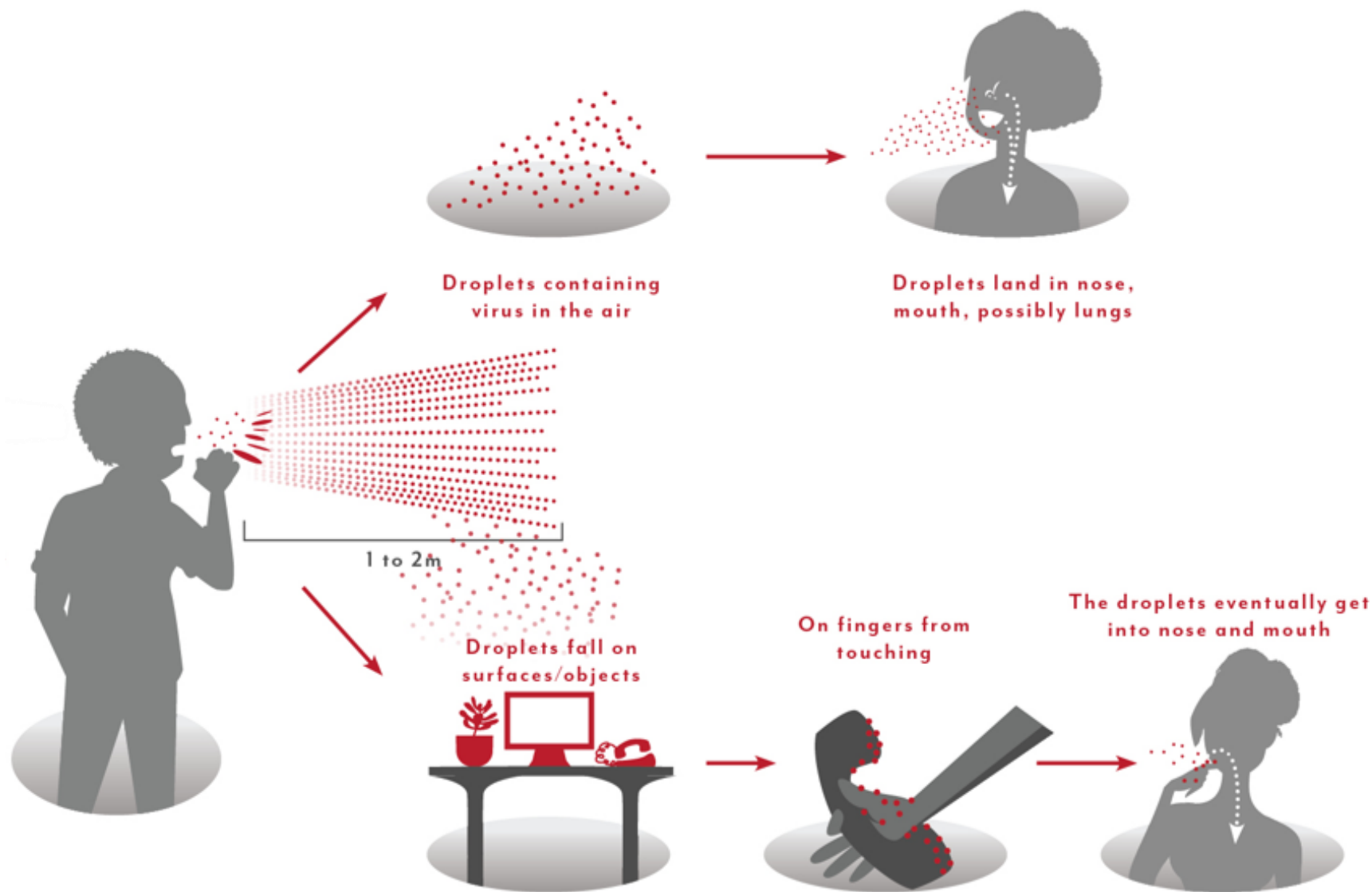
Bacteria are microscopic, single-celled organisms that exist in their millions, in every environment, both inside and outside other organisms. Bacteria can cause illness that also can lead to death.

A virus is a sub-microscopic infectious agent that replicates only inside the living cells of an organism. Viruses can infect all types of life forms, from animals and plants to microorganisms, including bacteria and archaea.



Virus transmission occurs through:

1. Direct air-borne transmission between people
2. Indirect air-borne transmission through air flows
3. Indirect surface-borne transmission via contaminated surfaces



Why Signify ?

We have more than **35 years of experience** and expertise in developing and manufacturing UV-C products.

Our Philips UV-C disinfection luminaires portfolio with UV-C lamps deliver on all the promises of UV technology.

Why is addressing airborne transmission a need of the hour?



WHO acknowledges air-borne transmission of COVID in Jul '20

THE LANCET

Lancet publishes detailed study on air being the pre-dominant medium of transmission in Apr '21

>40%

Silent Transmission accounts for >40% of transmission.

Long Range transmission between people who were never in each others presence

Airborne pathogens

SARS COV-2, Influenza, Tuberculosis, Chickenpox, Measles, SARS, MERS etc

ECOLINK

Don't just filter the air, eliminate virus, too.



Actively disinfects and purifies air in closed spaces

Ecolink UV-C air disinfection unit not only purifies the air you breathe but actively disinfects it using our state-of-the-art UV-C technology.

It is a comprehensive solution to address airborne transmission of pathogens.

It comes in three disinfecting capacities, ideal for all the Indoor professional applications.

2in1 Purifies & Disinfects



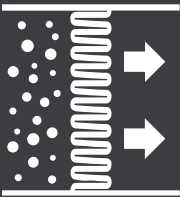
Multi layer air purification performance with UV-C technology

Multi layer filtration



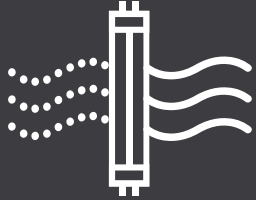
HEPA Filter

+



Carbon Filter

+



Air Disinfection By UV-C Lights

Three disinfecting capacities



Big
700x280x280mm

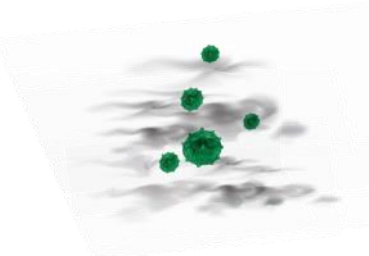


Medium
560x235x235mm

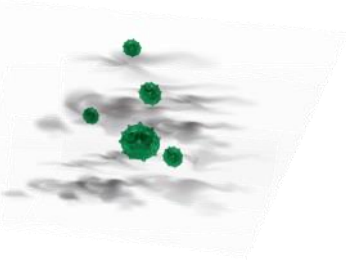


Small
300x170x170mm

Disinfected air output



Air input



Air Purifier with UV-C technology

Filter Removes:



Virus & Bacteria



Pet Dander



Mold Spores



Pollen



Dust Mite Allergens



Household Dust



Outdoor Pollution

UV-C disinfection chamber effective against:



SARS-CoV-2*



Virus & Bacteria



UV-C Disinfection

UV-C Air Disinfection reducing airborne pathogens by >99.99% **

Effective Against



SARS-CoV-2*



Virus & Bacteria**

*Proven to be effective against SARS-CoV-2. (Ongoing- expected in October)

**Based on tests conducted at Intertek India Pvt. Ltd. , a global assurance, testing, inspection and certification agency, the Air Purifier With UV-C Technology, demonstrated a killing rate of >99.95% in 30 mins and >99.99% in 2 hours for the tested organisms like Staphylococcus Aureus, Escherichia Coli, Aspergillus Niger and Coliphage (MS2) Bacteriophage in a test chamber of 12ftx12ftx9ft



Air filters

Pre-Filter

Removes Dust and condensed fumes, Human Hair And Animal Fur, Paper, wood and other tiny particles, plant fibers like pollen and cotton

Carbon foam

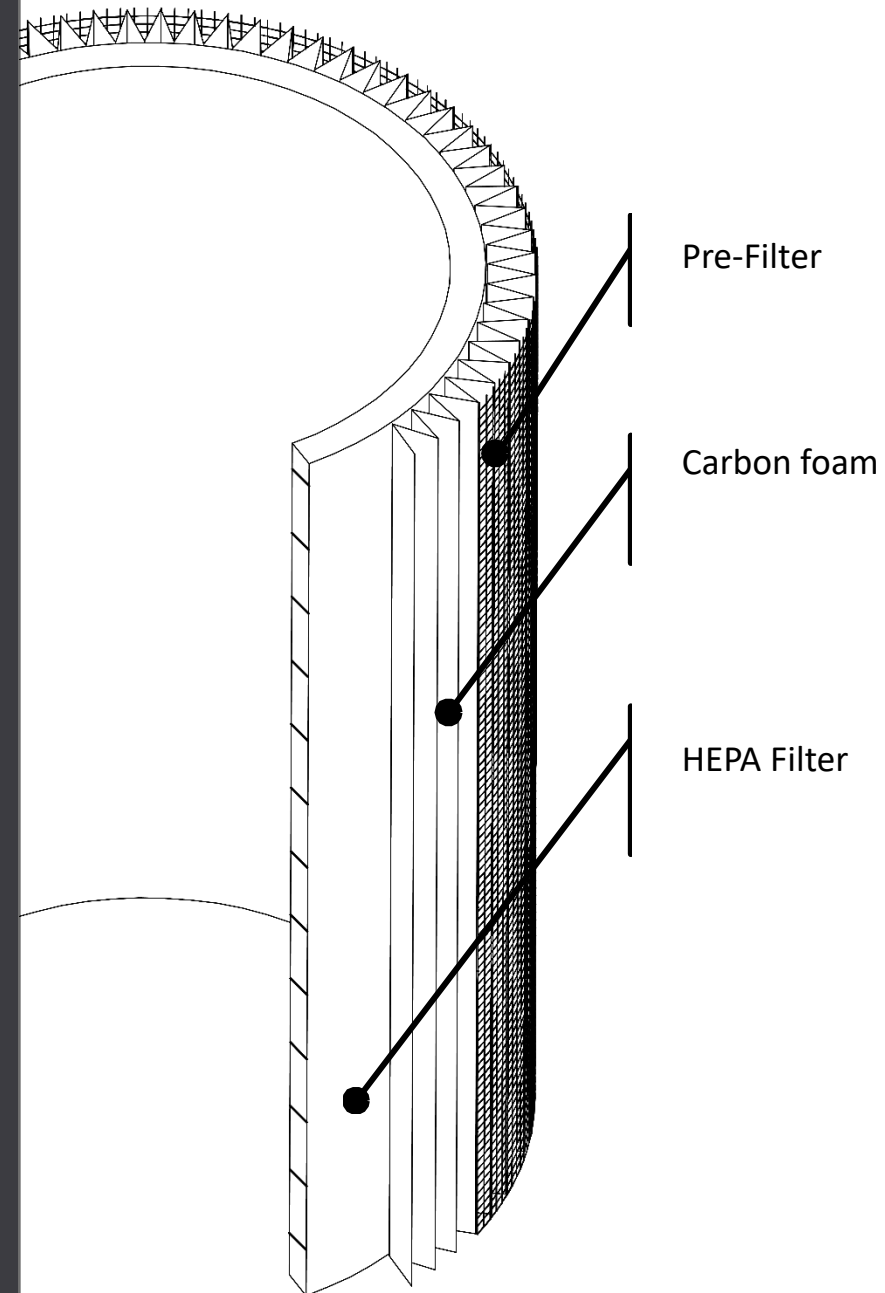
Sponge base material + activated carbon adsorption material (remove benzene, TVOCs and other harmful gases), filter the peculiar smell (Bad Odors)

H12 HEPA Filter

99.97% of all particles of .3 microns; 99.5% of all particles >.1 microns. HEPA filters capture pollen, dirt, dust, moisture, bacteria (0.2-2.0 μm), virus (0.02-0.3 μm), and submicron liquid aerosol (0.02-0.5 μm) Check Final Specification

Godoy, Charlotte; Thomas, Dominique (2020-07-02). "Influence of relative humidity on HEPA filters during and after loading with soot particles". *Aerosol Science and Technology*. 54 (7): 790–801. Bibcode:2020AerST..54..790G. doi:10.1080/02786826.2020.1726278. ISSN 0278-6826. S2CID 214275203. Archived from the original on 2021-05-16. Retrieved 2021-03-04.

Payet, S.; Boulaud, D.; Madelaine, G.; Renoux, A. (1992-10-01). "Penetration and pressure drop of a HEPA filter during loading with submicron liquid particles". *Journal of Aerosol Science*. 23 (7): 723–735. Bibcode:1992JAerS..23..723P. doi:10.1016/0021-8502(92)90039-X. ISSN 0021-8502. Archived from the original on 2021-05-16. Retrieved 2021-03-05.



Suits all your Indoor spaces

Effective air disinfection for closed spaces of various sizes.

- Office
- Hospitality
- Retail
- Schools
- Banking
- Industry
- Vaccination centers





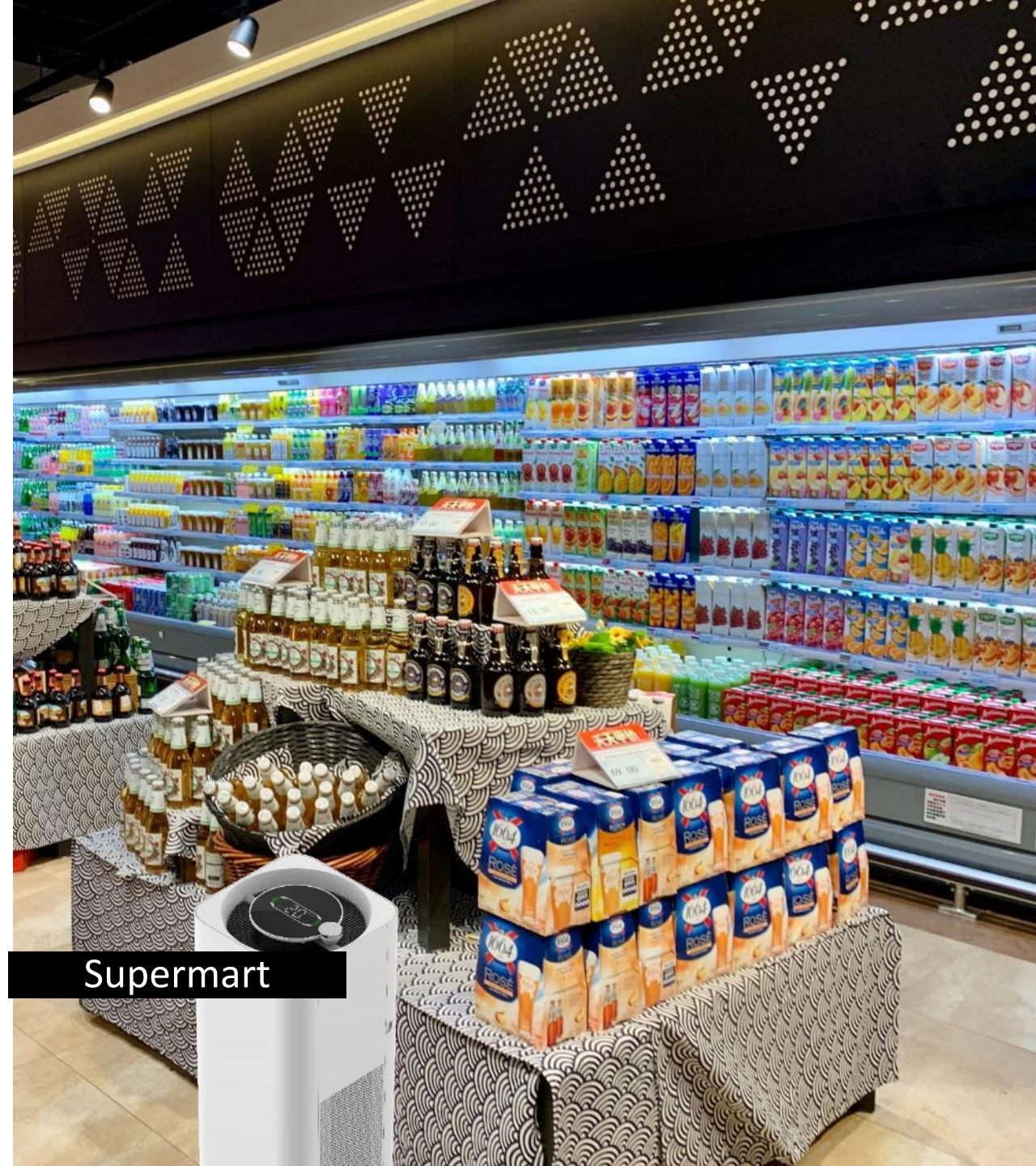
Gyms



Vaccination centers



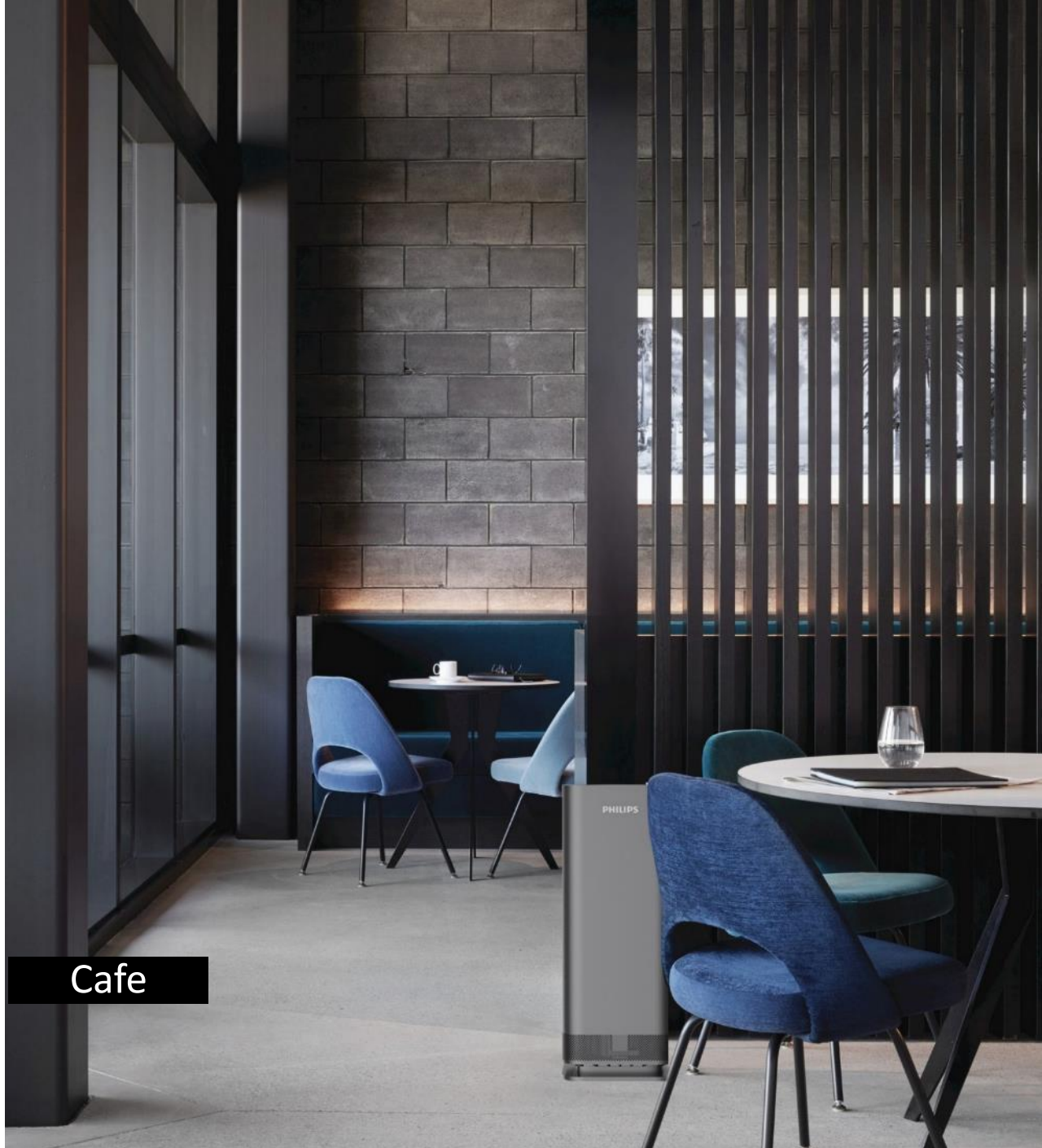
Factory



Supermart



Office



Cafe

Air exchange volume in three different sizes

Covers an area of up to **590 sq.ft** ^[1]. Purifies a standard room^[2] in just **10 minutes**, with a CADR of **380m³/hr**

Air exchange volume

Big

- Silent mode: 110 m³ per hour | Normal mode: 260 m³ per hour
- Ludicrous mode: 380 m³ per hour
- Max speed mode

Medium

Ludicrous mode: 220 m³ per hour

Max speed mode

Small

80 m³ per hour



User-friendly interface

One-button control

- Switch button
- Timer: 1-16Hours, step length 1 hour
- Fan: three step fan speed

Visual interface

- Immediate and Visualized Indoor PM2.5 Level

Air Quality Good Fair Poor

Color Ring   

- Room temperature



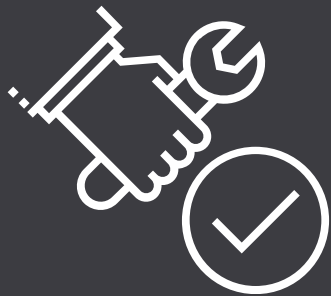
Ease of maintenance

- Indicator for UV-C lamp failure
- UV-C lamp Lifetime ending warning
- Hepa Filter replacement prompt function.
- Spare parts available
- Simple process for maintenance and replacement of filters and UV lights at home.



Product Safety

- **Safe to use**
 - UV-C Leakage : $< 0.2\mu\text{w}/\text{cm}^2$
 - Ozone free
 - Safety start
- **Easy maintenance**
 - Indicator for UV-C lamp maintenance
 - Spare parts available
- **UV-C resistant design**
 - Housing – UV resistant Plastic
 - Extra supportive metal structure inside disinfection chamber



EcoLink Key parameters

Product	Size (mm)	Operational input voltage (V)	Wattage (W)	UV-C lamp type (W)	CADR (m ³ /h)	Noise level at highest speed (dbA)	Applicable room for purification (m ²)
Big	700x280x280	100-300	90W	4x16W	380	≦65	55m ²
Medium	560x235x235	100-300	53W	4x11W	220	≦60	32m ²
Small	300x170x170	100-300	25W	2x9W	80	≦55	12m ²

	Big	Medium	Small
X=Volume (m ³)	e ACH	e ACH	e ACH
10m ³	19.8	11.4	4
15m ³	13.2	7.6	2.6
30m ³	6.6	3.8	1.3
50m ³	4.0	2.3	-
75m ³	2.7	1.5	-

*Typical height 2.4 m



EcoLink Specification

Product	Large – UVCA220B	Medium – UVCA120B	Small – UVCA020B
Size (HxLxW) Weight (kg)	700x280x280 7.3 Kg	560x235x235 5.4 Kg	300x170x170 3.5 Kg
Operational input voltage	100V-300V	100V-300V	100V-300V
Input frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Wattage (max)	90W ±10%	53W ±10%	25W ±10%
UV-C lamp type	4x16W TL-mini	4x11W TL-mini	2x9W PLS
CADR value	380 m ³ /h ±10%	220m ³ /h ±10%	80m ³ /h ±10%
Air cleaning area coverage	Up to 590 sq.ft.	Up to 330 sq.ft.	Up to 120 sq.ft.
HEPA filter	H12	H12	No
Purification particle	PM2.5	PM2.5	N/A
Control	Button	Button	Touch panel (on/off)
Time setting	1-16 hours, step length 1 hour	1-16 hours, step length 1 hour	No
Wind speed	3 steps	3 steps	1 step
Lamp - useful life Ballast switch times	9000 hrs 6000	9000 hrs 6000	9000 hrs 1500
Noise level at highest speed	≤65dB(A)	≤60dB(A)	≤55dB(A)
Housing material	UV stabilized plastic	UV stabilized plastic	UV stabilized plastic
Anti cleaning panel - lifetime	20K hrs	20K hrs	20K hrs
Surge (L/N)	1kV	1kV	1kV
Ozone free	Yes	Yes	Yes
UV-C lamp maintenance	Yes	Yes	Yes
Indicator for lamp maintenance	Yes	Yes	Yes
Lamp failure indicator	Yes	Yes	Yes
RoHS/reach	Yes	Yes	Yes
UVC exposure protection (Lamp function only when door is closed)	Yes	Yes	Yes
Air quality monitoring	Yes	Yes	No
Ambient temperature monitoring	Yes	Yes	No
Filter replacement indicator	Yes	Yes	Yes

Our promise

Breath healthy

UV-C Air Disinfection reducing airborne pathogens by >99.99%**

Breathe clean

H12 HEPA Filter - 99.97% of all particles of .3 microns; 99.5% of all particles >.1 microns.

Easy maintenance

Easy for Maintenance and Replacement at home



12NCs | Ordering data

Size	12NC	Product name	Brand	Type name	Color
Small	9114 015 67981	UVCA020B Air Disinfection unit	ECOLINK	UVCA020B	White
Medium	9114 015 69481	UVCA120B Air Disinfection unit	ECOLINK	UVCA120B	White
Big	9114 015 70981	UVCA220B Air Disinfection unit	ECOLINK	UVCA220B	White



Application considerations

- Our UV-C Products are not meant to be used in applications or activities which may cause and/or lead to death, personal injury and/or damage to the environment.
- This UV-C product is intended to be used for the disinfection of Indoor air.
- This UV-C product is not approved and / or certified as a medical device.
- The back cover must be closed properly before disinfection, otherwise the UVC lamp won't work. There should be no light leakage at the air inlet on the side of the body. If there is, please check whether the carbon cloth is installed correctly. Signify will not be responsible for any accidents/injuries caused by exposure to UV-C light.
- Please contact manufacture or its maintenance department and other similar professionals for repair. When the product is working normally, the UV-C radiation at 200mm from the product is $<1\text{mW/m}^2$. If the power cord is damaged, it must be replaced with a dedicated cord or with a dedicated component purchased from its manufacturer or maintenance department.
- UVC Exposed luminaire parts (other than metal parts), like Lamp holder, end cap etc. might change color after a certain period of usage due to the UV-C light property.
- UV-C light emitted from UVC lamp is much "stronger" than normal sunlight and can cause a severe sunburn-like reaction to your skin, and similarly, could damage the retina of your eye, if exposed.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- In case of accidental breakage of the lamp tube, it should be ventilated for 30 minutes first.
- Please remove the debris with gloves, put it in a sealed plastic bag and take it to a local waste disposal site for safe disposal.

Signify