



Make in India



Kills **SARS-COV-2** Virus **99.9%**
tested at **CSIR-IMTECH**

UV-C Air Disinfection System



UV-C Air disinfecter is an ozone free uv air disinfection device suitable for rooms with constant occupancy designed with technical knowhow with NPL National Physical Laboratory CSIR a TUBULAR REFLECTOR patent pending, and validated for use in closed environment, tested in NABL Accredited Lab.

Highly efficient UV-C disinfection system for reliably deactivating micro-organisms like viruses, bacteria or mould spores in the ambient air in less than 2 seconds.

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Yajiv Series of Air Disinfector



Specifications :

Technical Specifications	Models		
	EC V1	EC V2	ECH V2
UVC lamps 30 watts	1	2	2
UVC lamp life 9000 hrs	Yes	Yes	Yes
Intensity W s/m ² 39 to W s/m ² 66	Yes	Yes	Yes
Power Supply 240 V AC 50Hz	Yes	Yes	Yes
Noise level 52 db±1	Yes	Yes	Yes
Velocity ms ± 5%	1.00 ms	2.00 ms	2.00 ms
Covered area	800 sqft	1700 sqft	1700 sqft
Safety protection against UVC exposure with micro switch	Yes	Yes	Yes
Hour counter for tube replacement	Yes	Yes	Yes
Operation Automatic and manual both	Yes	Yes	Yes
Programmable for automatic operation for hour & days	Yes	Yes	Yes
Touch Control	NO	NO	Yes
Digital Hour Meter	NO	NO	Yes
UV C Lamp 'ON' Indicator	NO	NO	Yes
Fan Speed Switch For High Flow	NO	NO	Yes
Activated Carbon Lining For Odour Removal	NO	NO	Yes
Dimension Should be HXWXD CM Approximate	120X28X33	120X28X33	120X28X33
2 lockable wheels and 2 castors	Yes	Yes	Yes
SARS- CoV-2 inactivation >99.99 in 1 second	Yes	Yes	Yes
Escherichi coli, Acinetobacter baumannii, Staphylococcus aureus, Samonella typhimurium Bacillus cereus, Rhodococcus opacus, Male somatic coliphage	Yes	Yes	Yes
Testing at NABL	Yes	Yes	Yes
Testing at IMTECH	Yes	Yes	Yes
IEC 60335-2-65	Yes	Yes	Yes
ISO 9001: 2015			

UVC and Ozone data analysis of air disinfector

• Ozone Studies

UV-photometry based surface ozone analyzer (Make : Tanabyte) traceable to Primary Ozone Standard at CSIR-NPL is used for measuring the ozone gas concentration inside the Air Disinfector before and after turning on the UV source. The sampling tube of the ozone analyzer is placed inside the Air Disinfector and measurement on ozone were conducted for about seven hours.

Conclusion : It can be seen from the figure that the switching on and off of the UV air disinfector does not make any change in the measured ozone concentration values and it pertain to the ambient ozone.

Measurement of UVC Susceptibility of SARS-CoV-2

(Anti-virus test conducted at CSIR-IMTECH)

Microorganism	UVC Wavelength	% Reduction
SARS-CoV-2	253.7 nm	> 99.99% in 1 sec.

Test Reports : CSIR-IMTECH/AVT/2022-04, FRAC/F/2107070001-005, FRAC/F/2107070006-012 ERTL(N)/2021/21HC0048

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