

ROCKFOREST

**LE CLEAROE** UV  
UV Sanitiser & Air Purifier



**THE CORONA KILLER!**

# UV LED BASED SANITISER FOR YOUR HOME, OFFICES AND YOUR PERSONAL ITEMS

**An excellent 4 in 1 appliance**



**Air dust and odour remover**

(Filters dust, pollen and odour in the room air hence reduces allergy)



**UV air purifier, a chemical free germ disinfectant**

(Including corona\*)



**UV Sanitiser**

(Sanitises Currencies, Mobile phones, Keys, Purses, Masks, TV Remotes etc)



**A sturdy bedside table**

**MADE IN INDIA**



## General Specs :

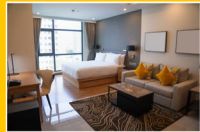
0.3 or 3 ??

for hepa filter, it is generally 0.3 and 99.97%

- Removes dust with 99% efficacy up to 3 micron particle.
- Cleans a closed room (12ft x 14 ft x 10 ft) air with in 4 hours of operation
- Destroys Bateria, Viruses and funguses (Refer technical specs) **bacteria**
- Sanitises Products in 600 sec (Longer the better - Refer the below dosage note)
- Purifies a standard room Air to 99% germ and dust free with 4 hours of operation
- 10 years design life for the electronics
- GERM KILLER UV ENGINE TESTED AT IAPMO, and Used for Large OEMs
- No Maintenance – 3 years warranty

## Application :

- Home – Suitable for all Rooms and Halls
- Offices and Cabins
- Shops and Restaurants
- Schools and Classrooms
- Saloons – Sanitising Dryers, Scissors, Sombs, Trimmers etc
- **Banks for Manager** Cabins and Currency Counters
- Hospital Rooms, Lobbies, and OTs



## Technical Specs

**IEST or ASTM??**

- Air filter standard - HEPA Standard ASTM D2986
- Fan Power : 24Watt
- Air flow : 180m3/h
- Speed : 2750 rpm
- Service life : 40000hrs@40degC
- UVC Dosage :  $12\text{mW} \times 2 = 24\text{mW}$
- **UV LED total Power :  $0.7\text{Watt} \times 2 = 1.4\text{W}$**
- Irradiance at LED – 80-90mW / cm2
- **Total radiation applied in 300 sec**
- UV-C half power Wave length – 265 – 285nm



## Dosage Report on Corona:

Table 1 summarizes the results of studies that have been performed on Coronaviruses under ultraviolet light exposure, with the specific species indicated in each case. The D90 value indicates the ultraviolet dose for 90% inactivation. Although there is a wide range of variation in the D90 values, this is typical of laboratory studies on ultraviolet susceptibility. The range of D90 values for coronaviruses is 7-241 J/m<sup>2</sup> the mean of which is 67 J/m<sup>2</sup>, should adequately represent the ultraviolet susceptibility of the SARS-CoV-2 (COVID-19) virus.

**Table 1: Summary of Ultraviolet Studies on Coronaviruses**

Microbe	D <sub>90</sub> Dose J/m <sup>2</sup>	UV k m <sup>2</sup> /J	Base Pairs kb	Source
Coronavirus	7	0.35120	30741	Walker 2007 <sup>a</sup>
Berne virus (Coronaviridae)	7	0.32100	28480	Weiss 1986
Murine Coronavirus (MHV)	15	0.15351	31335	Hirano 1978
Canine Coronavirus (CCV)	29	0.08079	29278	Saknimit 1988 <sup>b</sup>
Murine Coronavirus (MHV)	29	0.08079	31335	Saknimit 1988 <sup>b</sup>
SARS Coronavirus CoV-P9	40	0.05750	29829	Duan 2003 <sup>c</sup>
Murine Coronavirus (MHV)	103	0.02240	31335	Liu 2003
SARS Coronavirus (Hanoi)	134	0.01720	29751	Kariwa 2004 <sup>d</sup>
SARS Coronavirus (Urbani)	241	0.00955	29751	Darnell 2004
<b>Average</b>	<b>67</b>	<b>0.03433</b>		

<sup>a</sup>(Jingwen 2020)

<sup>b</sup>(estimated)

<sup>c</sup>(mean estimate)

<sup>d</sup>(at 3 logs)

chamber

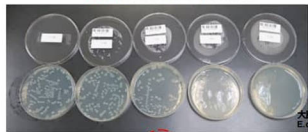
To disintegrate the corona virus - Chamber size of 2025cm2

As per mean Time required - 565 Sec or Aprox 10Mins

Worst case - 2033 sec or Aprox 30 Mins

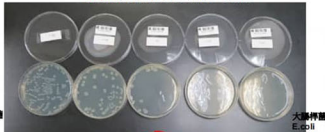
worst

280nm/ 10mW /120° /WD=40mm



0 sec 0%  
30 sec 44.8%  
60 sec 64.5%  
180 sec 99.4%  
300 sec 99.7%

270nm/ 10mW /120° /WD=40mm



0 sec 0%  
30 sec 75.8%  
60 sec 96.1%  
180 sec 100%  
300 sec 100%

**ROCKFOREST**  
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